

GenCore version 5.1.4.p5-4578
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OM nucleic - nucleic search, using sw model

Run on: March 23, 2003, 01:35:26 ; Search time 173 Seconds
(without alignments)
5050.417 Million cell updates/sec

Title: US-09-779-427-1

Perfect score: 2849

Sequence: 1 ggaatctggcggagcgcg.....ccccgagatggagcgatcc 2849

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

- 1: /cgn2_6/ptodata/2/ina/5A_COMB.seq.*
- 2: /cgn2_6/ptodata/2/ina/5B_COMB.seq.*
- 3: /cgn2_6/ptodata/2/ina/6A_COMB.seq.*
- 4: /cgn2_6/ptodata/2/ina/6B_COMB.seq.*
- 5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq.*
- 6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2849	100.0	2849	3	US-08-809-286B-1
2	110.4	3.9	1770	1	US-08-241-943-25
3	110.4	3.9	2019	1	US-08-254-357-3
4	110.4	3.9	4983	1	US-08-472-358-1
5	110.4	3.9	4983	5	PCT-US92-05786A-1
6	110.4	3.9	4984	1	US-08-687-806-1
7	105	3.7	13613	4	US-09-105-537-3
8	102	3.6	1785	2	US-08-910-856-1
9	102	3.6	3187	2	US-08-910-856-9
10	102	3.6	3187	2	US-08-910-856-10
11	92.2	3.2	5392	2	US-08-403-852D-1
12	92.2	3.2	5392	3	US-08-510-646B-1
13	92.2	3.2	5392	4	US-09-231-818-1
14	87.8	3.1	12001	1	US-08-458-568A-11
15	85	3.0	4257	2	US-08-690-473-1
16	85	3.0	4257	4	US-08-259-821A-1
17	85	3.0	4257	4	US-08-843-659-1
18	84.2	3.0	1248	4	US-09-105-537-7
19	84	2.9	15872	4	US-09-105-537-1
20	83	2.9	2277	1	US-08-676-967-5
21	83	2.9	2277	1	US-08-676-974-5
22	83	2.9	2277	2	US-09-098-487-5
23	79	2.8	2413	4	US-09-613-182-10
24	79	2.8	411529	4	US-09-103-840A-1
25	77.8	2.7	44377	2	US-08-804-227C-7
26	77.8	2.7	44377	2	US-08-804-198-1
27	77.4	2.7	4496	4	US-08-765-907A-6

28	76.8	2.7	2219	3	US-08-510-646B-17	Sequence 17, Appl
29	76.4	2.7	2220	4	US-08-765-907A-14	Sequence 14, Appl
30	75.2	2.6	1924	2	US-08-756-317-1	Sequence 1, Appl
31	75.2	2.6	8438	1	US-07-945-283-1	Sequence 1, Appl
32	74.6	2.6	3624	1	US-07-951-715A-6	Sequence 6, Appl
33	74.6	2.6	3624	2	US-08-459-448A-6	Sequence 6, Appl
34	74.6	2.6	3624	3	US-08-459-595A-6	Sequence 6, Appl
35	74.6	2.6	3624	3	US-08-459-504B-6	Sequence 6, Appl
36	74.6	2.6	3624	3	US-08-459-444-6	Sequence 6, Appl
37	74.6	2.6	3624	3	US-09-053-549-7	Sequence 7, Appl
38	74.6	2.6	3624	4	US-09-547-422-6	Sequence 6, Appl
39	74	2.6	13842	4	US-09-105-537-30	Sequence 30, Appl
40	74	2.6	36778	4	US-09-105-537-5	Sequence 5, Appl
41	74	2.6	36506	3	US-09-320-878-19	Sequence 19, Appl
42	73.4	2.6	13613	4	US-09-105-537-3	Sequence 3, Appl
43	70.8	2.5	2299	4	US-09-153-599A-1	Sequence 1, Appl
44	70.6	2.5	2712	3	US-09-025-691-4	Sequence 4, Appl
45	70.6	2.5	12588	2	US-08-387-942C-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-809-286B-1
; Sequence 1, Application US/08809286B
; Patent No. 6011144
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Process for manufacturing polyhydroxylic
; TITLE OF INVENTION: fatty acids, and recombinant bacterial strains for
; TITLE OF INVENTION: carrying out the process
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/809,286B
; FILING DATE: 3-JUL-97
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Patricia A. Kammerer
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: MOBT-152 (28-21(15115)A)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1400
; TELEFAX: 713-787-1440
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2849 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Thiocapsa pfennigii
; IMMEDIATE SOURCE:
; CLONE: Pseudomonas putida SK 6691/Alcaligenes
; CLONE: eutrophus SK 6891
US-08-809-286B-1

Query Match 100.0%; Score 2849; DB 3; Length 2849;
Best Local Similarity 100.0%; Pred. No. 0;

09/779, 427
Examiner's Search
Notes 2/21/04

Matches 2849; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Oy 1 GGATCTGGTCGCGAGCGCGCCGACCACTTCCGCGCGCCGCGGACCGCTC 60
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Oy 61 GAGGAGCCTTCGCGAAGCTCTAGGGCTGTATCTTCAAGTCTACGCCCTTTGTTGC 120
Db 61 GAGGAGCCTTCGCGAAGCTCTAGGGCTGTATCTTCAAGTCTACGCCCTTTGTTGC 120
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Db 121 AGTGACAAATTTCCGTGCTAGCTTTCATGCTATACGCCCCAGAGCGAGAAATTACCG 180
Oy 181 TGAACGATACGSCCAACAGACACGAGCTGGCTGGACATCCAACGCAAGTACTGGGAGA 240
Db 181 TGAACGATACGSCCAACAGACACGAGCTGGCTGGACATCCAACGCAAGTACTGGGAGA 240
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Db 301 CGGCGCCCTCGATCATTTGGTGGCAGACGGTCTCGCCCGCGCCGCCCAACGACCTGGTTC 360
Oy 361 GCGACTTCATGAGAGCTCGCGAGAGGGCAAGGCTTCTTCCGCTCAACCGACTACT 420
Db 361 GCGACTTCATGAGAGCTCGCGAGAGGGCAAGGCTTCTTCCGCTCAACCGACTACT 420
Oy 421 TCACGAAGGGCTCGGCGCGAGTAGCGGTACGCGAGGCTGGGACACCTCTCGAAGACCA 480
Db 421 TCACGAAGGGCTCGGCGCGAGTAGCGGTACGCGAGGCTGGGACACCTCTCGAAGACCA 480
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Oy 601 CCCGGTCCGCGGACCTGTGCGCAACATGCCGCGACCAAGTCAAGGACAGCGTCG 660
Db 601 CCCGGTCCGCGGACCTGTGCGCAACATGCCGCGACCAAGTCAAGGACAGCGTCG 660
Oy 661 ACCGATCCTCTCGGACCCCGGCTCGCTACACGCGGAGGAGCGCCGCTACCAAG 720
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Oy 721 ATCTGATCCGCGCTCGCTGGAGTACCACTCGGCGCTGAAACGAAATACACGCTTCTTCG 780
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Oy 781 GCCAGCTCGGTGTCAGTCCCTCGAGCGGATGCGCGCTTCTGCGAGGACAGGCCGAGA 840
Db 781 GCCAGCTCGGTGTCAGTCCCTCGAGCGGATGCGCGCTTCTGCGAGGACAGGCCGAGA 840
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Db 841 AGGGGTCGCCATCGAGTCGGCGCGCACCTCTACAGCGCTGGGTGCGCTGCTCGAAG 900
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Db 961 ACGCCAGATGGCCCTCAAGCAGCGCATGTGCAACATGGTTCGAGCGAGTCTTCGCGCGA 1020
Oy 1021 TGGCGTCCGACCCGAGCGAGCTGCCACGCTCCAGGATCGGCTCCAGGAGTCGCGG 1080
Db 1021 TGGCGTCCGACCCGAGCGAGCTGCCACGCTCCAGGATCGGCTCCAGGAGTCGCGG 1080
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Oy 1081 GCGAGGGCAAGCGCAGCGCCAAAGAGATCGAGACGCTGAACGCGCAGTTCGCGGCTTGG 1140
Db 1081 GCGAGGGCAAGCGCAGCGCCAAAGAGATCGAGACGCTGAACGCGCAGTTCGCGGCTTGG 1140
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Db 1141 CCGCGGCGCCAGCGCGCGCCCGAGGCTCCGCCAGCCAGCACCCGCGCCGCGCGCGG 1200
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Db 1201 CGAGGGCCCGCGCGCGAGCGCGCCAAAGCGCAGCACACACCGCCCGCGCAAGACCA 1260
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Db 1261 CCAAGCCACCAACCGCGCAGTGTTCGGCCCGCTCCATCGCCACCGAGGAGAGTGC 1320
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Db 1321 CGTGTCCCATTCGCGTCGATCCCGCCGACAAAGTGCAGGAGATGCTGGAGTA 1380
Oy 1381 CAGCGCAAGCTTCGCGAGGCTATGCAGAACTGCTCAAGGCCGACACAGATCGACACAGG 1440
Db 1381 CAGCGCAAGCTTCGCGAGGCTATGCAGAACTGCTCAAGGCCGACACAGATCGACACAGG 1440
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Db 1561 GCCCTACATGACCCGACATCCAGGAGGATCGTCGACGATCAAGGGCTGCTCGCCACCGG 1620
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Oy 1681 CGATGACTACATCAACGCTACATCGACGCTGCTGCTACCTGCGGAGACCAAGG 1740
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Oy 1741 CGTCCAGCAGTCAACCTGCTCGGATCTGCGAGGGCGGCTTACGCTCTGCTACAC 1800
Db 1741 CGTCCAGCAGTCAACCTGCTCGGATCTGCGAGGGCGGCTTACGCTCTGCTACAC 1800
Oy 1801 GGCCTGCACTCCGAGAGGTCAAAAACCTCGTCAACATGGTTCAGCGCGCTGCTTCCA 1860
Db 1801 GGCCTGCACTCCGAGAGGTCAAAAACCTCGTCAACATGGTTCAGCGCGCTGCTTCCA 1860
Oy 1861 GACCCCGGCAACCTGCTCGGCTGCTGCGGTCAGAACGTCGACGTCGACCTGGCGTGA 1920
Db 1861 GACCCCGGCAACCTGCTCGGCTGCTGCGGTCAGAACGTCGACGTCGACCTGGCGTGA 1920
Oy 1921 CACCATGGGCAACATCCCGGCGAACTGCTCAACTGGACCTTCTGCTGCTCAAGCCCTT 1980
Db 1921 CACCATGGGCAACATCCCGGCGAACTGCTCAACTGGACCTTCTGCTGCTCAAGCCCTT 1980
Oy 1981 CAGCTCGACCGGCCAGAGTACGTCACATGGTTCGACCTGCTCGACGACGAGGACAAAGT 2040
Db 1981 CAGCTCGACCGGCCAGAGTACGTCACATGGTTCGACCTGCTCGACGACGAGGACAAAGT 2040
Oy 2041 CAAGAACTTCTTCGGATGGAGAGTGGATCTTCAGAGCCGCGGACGAGCGCGGAGAC 2100
Db 2041 CAAGAACTTCTTCGGATGGAGAGTGGATCTTCAGAGCCGCGGACGAGCGCGGAGAC 2100
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Db	2161	GATCGGCGATCAGGAGGT	CGA	CTCTGGCAACATCCGCTGCCGGTCTCTGAACATCTTACCC	2220
Qy	2221	GATCGAGGACCACTGGTGC	CGCGCGGATGCCTC	CAAGGCCCTCGGGGACTGACTCCAG	2280
Db	2221	GATCGAGGACCACTGGTGC	CGCGCGGATGCCTC	CAAGGCCCTCGGGGACTGACTCCAG	2280
Qy	2281	CGAGGACTACACGAGACT	CGCCTTCCC	CGCGGGGCACATCGGCATCTACGTACGGGCAA	2340
Db	2281	CGAGGACTACACGAGACT	CGCCTTCCC	CGCGGGGCACATCGGCATCTACGTACGGGCAA	2340
Qy	2341	GGCGCAGGAAGAGT	CACCCC	CGCGCATGGCTGGAACGACCGCGCTGAGCGG	2400
Db	2341	GGCGCAGGAAGAGT	CACCCC	CGCGCATGGCTGGAACGACCGCGCTGAGCGG	2400
Qy	2401	GTGACCCACCCCTCGA	CGGGCGGCGCGCGGAT	CGAAGGCGCGGCGCGCGGCCA	2460
Db	2401	GTGACCCACCCCTCGA	CGGGCGGCGGCGCGGAT	CGAAGGCGCGGCGCGCGGCCA	2460
Qy	2461	TGAGCCATCCGCGCGCT	GGCGCCCGCCCC	CGACCTTTCGCGCGCACCGCATCGCCC	2520
Db	2461	TGAGCCATCCGCGCGCGT	GGCGCCCGCCCC	CGACCTTTCGCGCGCACCGCATCGCCC	2520
Qy	2521	CCGCGGTGGCGTACAA	TACGCTTTCGCGAGC	GAGCCCCCGCATCTGTAACGGAGGCTG	2580
Db	2521	CCGCGGTGGCGTACAA	TACGCTTTCGCGAGC	GAGCCCCCGCATCTGTAACGGAGGCTG	2580
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Db	2581	CATGGGCGCGACCA	CAACTGTCGCGCGT	ACGACGCGTGGCGGAGACTTACGACGC	2640
Qy	2641	CCACCGGCGCTTTCGA	CATGGCGCGTGTCT	CAGGACATCTTCCCGCGCTGCGGCG	2700
Db	2641	CCACCGGCGCTTTCGA	CATGGCGCGTGTCT	CAGGACATCTTCCCGCGCTGCGGCG	2700
Qy	2701	CTGCGGCAACCCTCT	CGACCTCGGCTG	CGGCGCGCGGAGCGGTGCGCGCGCGCTTCCT	2760
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Qy	2761	CGACCGGCGTGGCGGGT	GACCGGGGTG	ACTTCTGCCCGGCATGCTCGCCCTCGCGGC	2820
Db	2761	CGACCGGCGTGGCGGGT	GACCGGGGTG	ACTTCTGCCCGGCATGCTCGCCCTCGCGGC	2820
Qy	2821	GCCTACGTCCTCCCGAT	GAGCGGATCC	2849	
Db	2821	GCCTACGTCCTCCCGAT	GAGCGGATCC	2849	

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QY	168	CGCTCAAGCCCTTCAGCCTGACCGGCCAGAGTAGCTACGTCAACATGGTGCAGCTGCTCGACG	2027
Db	1169	TGCCAAATACCTTCTCGTTCTTGGCGCCGACGACCTGGTGTGGAACCTACGTGGTGCACA	1228
QY	2028	ACGAGACAAAGGTCAAGAATCTTCTCGCGATGGA-----GAAGTGGATCTTTCGACAGCC	2081
Db	1229	ACTACCTGAAGGGCAACACGCGCGTGCCTTCGACCTGCTGTCTGGAAACGGCGACGCCA	1288
QY	2082	CGACACAGGCGCGGAGACCTTCCGCCAGTTCATCAAGGACTTCTACACGCGCAACGGCT	2141
Db	1289	CAAACTGCGGGCGCGTGGTACTGCTGTGTACTCTGCGCCACACTCTCTGCAGAACGAGC	1348
QY	2142	TCATAACCGCGCGCTCTGATCG---GCGATCAGGAGGTGCAGCTTCGCGCAACATCCGCT	2198
Db	1349	TCAAGGTACCGGCAAGCTGACCGTGTGCGGGTSCCGTGGACCTGGCCAGCATCGACG	1408
QY	2199	GCCGGTCTCTGAACATCTTACCCGATGACGACCACCTGTCGCCCGGATGCTCTTCAAGG	2258
Db	1409	TGCCGACCTATATCTACGGCTCGCGGAAGACATATGTCGCGTGGACCGCGCCTATG	1468
QY	2259	CCCTCGCGGACTGACCTCCAGCGAGGACTACAGGAGCTCG	2300
Db	1469	CCTCGACCGCGTCTGTGGCAACAGCTGCGCTTCTGCTGG	1510
RESULT 3			
US-08-254-357-3			
; Sequence 3, Application US/08254357			
; Patent No. 5610041			
; GENERAL INFORMATION:			
; APPLICANT: Christopher R. Somerville,			
; APPLICANT: Christiane Nawrath,			
; APPLICANT: Yves Poirier			
; TITLE OF INVENTION: Processes For Producing			
; TITLE OF INVENTION: Polyhydroxybutyrate and Related			
; TITLE OF INVENTION: Polyhydroxyalkanoates in the			
; TITLE OF INVENTION: Plastids of Higher Plants			
; NUMBER OF SEQUENCES: 3			
; CORRESPONDENCE ADDRESS:			
; ADDRESSEE: Ian C. McLeod			
; STREET: 2190 Commons Parkway			
; CITY: Okemos			
; STATE: Michigan			
; COUNTRY: USA			
; ZIP: 48864			
; COMPUTER READABLE FORM:			
; MEDIUM TYPE: Diskette 5.25 inch, 360 kb			
; MEDIUM TYPE: storage			
; COMPUTER: Acer			
; OPERATING SYSTEM: MS-DOS (version 3.3)			
; SOFTWARE: Wordperfect 5.1			
; CURRENT APPLICATION DATA:			
; APPLICATION NUMBER: US/08/254,357			
; FILING DATE:			
; CLASSIFICATION: 435			
; PRIOR APPLICATION DATA:			
; APPLICATION NUMBER: 08/108,193 and 07/732,243			
; FILING DATE: August 17, 1993 and July 19, 1991			
; ATTORNEY/AGENT INFORMATION:			
; NAME: Ian C. McLeod			
; REGISTRATION NUMBER: 20,931			
; REFERENCE/DOCKET NUMBER: MSU 4.1-222			
; TELECOMMUNICATION INFORMATION:			
; TELEPHONE: (517) 347-4100			
; TELEFAX: (517) 347-4103			
; INFORMATION FOR SEQ ID NO: 3:			
; SEQUENCE CHARACTERISTICS:			
; LENGTH: 2019 Base Pairs			
; TYPE: Nucleic Acid			
; STRANDEDNESS: Double			
; TOPOLOGY: Linear			
; MOLECULE TYPE:			


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Qy 2071 CTTGACAGCCCGGACACAGGCGCGGAGACCTTCCGCGAGT---TCATCAAGGACTTCTA 2127
Db 12032 CTTGACAGCCCGGACACAGGCGCGGAGACCTTCCGCGAGT---TCATCAAGGACTTCTA 11973
Qy 2128 CCAGCGCAACGGCTTCATCAAGCGCGGCTCTGATCGCGATCAGGAGTGA---CCT 2184
Db 11972 CCAGCGCAACGGCTTCATCAAGCGCGGCTCTGATCGCGATCAGGAGTGA---CCT 11913
Qy 2185 GGGCAACATCCGCTGCCGCTCTGAACATCATACCCGATGAGGACCACTTGGTCCGCC 2244
Db 11912 GCACACCGCGCTACTTCTCGCGGGTGCACAGCTGAGCGCTACCGCGGCGACGC 11853
Qy 2245 GGATCCCTCAAGCGCTTGGCGGACTGACTTCCAGCGAGGACTACAGGAGTCCGCTT 2304
Db 11852 GCACCGCGCTGCGCACACCGCTGCGCGCGCTGCTGCTCCCTGCCGACCG 11793
Qy 2305 CCCCGCGGACATCGGATCTAGTACGCGGAAGGCGGAGGAGTACACCCCGC 2364
Db 11792 CACCGCCATCGCGGACGACATCCGCGGGTCCGACCTGCTGCGCTCTGCGCGAC 11733
Qy 2365 GATCGCGCTGGCTGAACGAAACCGGCTGAGCGGGTGCACCCGCTCGACGGCG 2424
Db 11732 CCGCGCGCGGACTGACCGCGGCGCACCGCGACGCGCGCGCGCTCG---CGGCG 11675
Qy 2425 CGCGCGGCGGATCGAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2484
Db 11674 CCGCGAGATCCACCGCGCGGATGAGCGCTCCGATGA-CGCGCGCGCGCGCTTCCGCG 11616
Qy 2485 CGCGCGGCGGCTTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2544
Db 11615 ACCGCGCGCGCGGCGGAGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 11558
Qy 2545 CTTCCGCGAGCGAGCGCGCGATCGTCAACGAGGCTGCTGCGCGCGCGCGCGCG 2604
Db 11557 --CGTCCGCGAGCGCTTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 11500
Qy 2605 GCGCGCTGCGAGGACTTTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2664
Db 11499 CGCGCGCGCGCGCGCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 11440
Qy 2665 CGCGCTGCGAGGACTTTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2724
Db 11439 GAGCGCGCGCGCGCGCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 11380
Qy 2725 CTGCGCGCGCGCGGAGCGTGGCGCGCGCGCTTCTCGACCGCGCGTGG 2773
Db 11379 CGGCGAGTCCCGGAGCTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 11331
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RESULT 8

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US-08-910-856-1
; Sequence 1, Application US/08910856
; Patent No. 5981257
; GENERAL INFORMATION:
; APPLICANT: FUKUI, TOSHIKI
; APPLICANT: DOI, YOSHIAHU
; TITLE OF INVENTION: POLYESTER SYNTHASE GENE AND PROCESS
; TITLE OF INVENTION: FOR PRODUCING POLYESTER
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FISH & RICHARDSON P. C.
; STREET: 4225 EXECUTIVE SQUARE, SUITE 1400
; CITY: LA JOLLA
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/910.856
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; FILING DATE: 13-AUG-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 214509/1996
; FILING DATE: 14-AUG-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 199979/1997
; FILING DATE: 25-JUL-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: HAILLE, LISA A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07898/016001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-678-5070
; TELEFAX: 619-678-5099
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1785 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1782
US-08-910-856-1
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Query Match 3.6%; Score 102; DB 2; Length 1785;

Best Local Similarity 46.9%; Pred. No. 2.3e-09; Matches 392; Conservative 0; Mismatches 435; Indels 9; Gaps 2;

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Qy 1500 GCCCGCGCGAGTGGCGACCCAGACGATCCCGCTGCTGATCGTCTTACGCCCTTCGTCAATC 1559
Db 686 GCCCGACTACCGAGCGGTGGCGAAGACACCTGTGCTGATGTCGCCCTTCATCAACA 745
Qy 1560 GGCCTTACATACCGACATCCAGGAGATCGCTCGACATCAAGGCGCTGTGCGCCACG 1619
Db 746 AGTACTACATCATGACATCGCGGCCAGAACTCCCTGCTGCTGCTGCTGCTGCTGCTGCT 805
Qy 1620 GTCAGGAGTCTATCTGATCGACTGGGGCTACCCGGATCCAGCGACCGCGCGCTGACCC 1679
Db 806 GCCAGACGGTATTGATGATCTCCCTGGCGCAACCCGGGGCTGGCCCGGCGCAAAATCGATC 865
Qy 1680 TCGATGACTACATCAACGGCTACATCCAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1739
Db 866 TCGAGACTACGTTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 925
Qy 1740 CGGTGACACAGGTCAACCTGCTCGGGATCTCCAGGCGGGGCGCTTACGCTTCTGCTACA 1799
Db 926 CGGAGCGGGAGGTGCAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 985
Qy 1800 CGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1856
Db 986 TGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1045
Qy 1857 TCCAGACCCCGGCAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1916
Db 1046 CCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1105
Qy 1917 TCGACACCATGGGCAACATCCGCGCGGAACTGCTCAACTGGACCTTCTGCTGCTCAAGC 1976
Db 1106 CGGCGCTCGAGCGCAAAATGAGGCGCATCATGAGCGGCGGCGGCGGCTGCTGCTGCTGCT 1165
Qy 1977 CTTTCAGCTGACCGCGCAGAGTACGTCACATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 2036
Db 1166 CTTTCAGCTGCTGCGGAGAACAGCTTCTTGTGAACTACTACATCGACGAGTACCTCA 1225
Qy 2037 AGGTCAAGAACTTCTGCGGATGGA-----GAAGTGGATCTTTCAGACCGCGGACCGAGG 2090
Db 1226 AGGTTCAGAGCGCGGTGGCTTCGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1285
Qy 2091 CGGCGAGACCTTCCGCGAGTTCATCAAGGACTTCTACAGGCACTTCTACAGGCAACGGCTTCT 2150
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Db 1286 CGGGCAAGACCACAAAGCCTGCTGCGCGCTCTCTACTCGAGAACAGCTGGTGAAGG 1345
Qy 2151 GCGGCTCTGATCGCGGATCAGGAGGTGACCTCGGCAACATCGCTGCCGGTCTCTGA 2210
Db 1346 GGGAGCTCAAGATCCGCAACACCCGCATCGATCTCGGCAAGGTGAAGACCCCTGTGCTGC 1405
Qy 2211 ACATCTACCGATGAGACACACCTGTGCGCGCGATGCTTCCAAAGGCCCTCGCGGAC 2270
Db 1406 TGGTGTGCGGCTGACCATCATCGCCCTCTGCGAGGGCACCTGGCAGGGCATGAAGC 1465
Qy 2271 TGACCTCCAGCGAGGACTACACGGAGTCTGCTTCCCGGGCGGCACATCGGCATC 2326
Db 1466 TGTGTTGGGGGAGCAGCGCTTCTCTCGCGGAGTCCGGCCACATCGCGCGCATC 1521

RESULT 9

US-08-910-856-9
; Sequence 9, Application US/08910856
; Patent No. 5981257
; GENERAL INFORMATION:
; APPLICANT: FUKUI, TOSHIKI
; APPLICANT: DOI, YOSHIHARU
; TITLE OF INVENTION: POLYESTER SYNTHASE GENE AND PROCESS
; TITLE OF INVENTION: FOR PRODUCING POLYESTER
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FISH & RICHARDSON P. C.
; STREET: 4225 EXECUTIVE SQUARE, SUITE 1400
; CITY: LA JOLLA
; STATE: CA
; COUNTRY: USA
; ZIP: 92037

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/910.856
; FILING DATE: 13-AUG-1997
; CLASSIFICATION: 435

PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 214509/1996
; FILING DATE: 14-AUG-1996

PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 199979/1997
; FILING DATE: 25-JUL-1997

ATTORNEY/AGENT INFORMATION:
; NAME: HAILE, LISA A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07898/016001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-678-5070

TELEFAX: 619-678-5099
; INFORMATION FOR SEQ ID NO: 9:

SEQUENCE CHARACTERISTICS:
; LENGTH: 3187 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double

TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:

NAME/KEY: CDS
; LOCATION: 384..734

FEATURE:
; NAME/KEY: CDS
; LOCATION: 830..2611

US-08-910-856-9

Query Match 3.6%; Score 102; DB 2; Length 3187;

Best Local Similarity 46.9%; Pred. No. 2.4e-09;

Matches 392; Conservative 0; Mismatches 435; Indels 9; Gaps 2;

Qy 1500 GCCGGCGCAGGTGGCGACCAGAGCATCCGCTGCTGATCGTCTACGCCCTCGTCAATC 1559
Db 1515 GCCGACTACAGAGAGGTGGCAAGACACCTGTCTGTATAGTGCCTCTTATCAACA 1574
Qy 1560 GGCCTTACATACCGACATCCAGGAGGATCGCTCGACGATCAAGGGCTGTGCGGCACCG 1619
Db 1575 AGTACTACATCATGACATCGGCCCCAGAACTCCCTGCTGCTGCTGCTGCTGCTG 1634
Qy 1620 GTCAGGAGCTTATCTGTGATCGACTGGGGCTACCGGATACAGGCGACCGGGCGTGA 1679
Db 1635 GCCAGACGGTATTATGATCTCTGGCGCAACCGGGGCTGCGCCAGGCCCAATCGATC 1694
Qy 1680 TCGATGACTACATCAACGGCTACATCGACCGCTGCTGCTGCTGCTGCTGCTGCTG 1739
Db 1695 TCGAGACTACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1754
Qy 1740 CGCTCGACAGGTCAACCTGCTCGGGATCTCGAGGGGGGGGCTTTCAGCCTCTCTACA 1799
Db 1755 CGGAGGGGAGGTGCAAGGCTCGGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1814
Qy 1800 CGGCCCTGCTACTCCGAGAAAGTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1856
Db 1815 TGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1874
Qy 1857 TCCAGACCCCGGGAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1916
Db 1875 CCCTGCTGACTTCTCCAGCCCGGGAGCTTGGCATCTTTCATCCACGAGCCCATCATG 1934
Qy 1917 TCGACACCATGGGAAACATCCGGGCGAACTGCTCAACTGCGACCTTCTGCTGCTCA 1976
Db 1935 CGGCGCTCGAGCGCAAAATGAGGCCAAGGGCATATGAGCGGGCGGCTGCTGCTGCT 1994
Qy 1977 CTTTCAAGCTTCCGAGAAAGTACGTCAACATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2036
Db 1995 CTTTCAAGCTTCCGAGAAAGTACGTCAACATGCTGCTGCTGCTGCTGCTGCTGCTG 2054
Qy 2037 AGTCAAGAACTTCTGCGGATGGA-----GAAGTGAATCTTTCGACAGCCCGGAC 2090
Db 2055 AGGGTCAGAGCCCGGTGGCTTGGCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2114
Qy 2091 CGGCGAGACTTCCGCGAGTTCATCAAGGACTTCTACAGCGCAACGGCTTTCATCAAG 2150
Db 2115 CGGCAAGACCCACAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2174
Qy 2151 GCGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2210
Db 2175 GGGAGCTCAAGATCCGCAACACCCGCATCGATCTCGGCAAGGTGAAGACCCCTGTG 2234
Qy 2211 ACATCTACCGATGAGACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2270
Db 2235 TGGTGTGCGGCTGAGCATCACATCGCCCTTGGCAGGGCACCTTGGCAGGGCATGAAG 2294
Qy 2271 TGACCTCCAGCGAGACTACAGGAGTCTGCTTCCCGGGGGGCGACATCGGCATC 2326
Db 2295 TGTGTTGGCGGGAGCAGCGCTTCTCTGCGGAGTCCGGCCACATCGCGCGCATC 2350

RESULT 10

US-08-910-856-10
; Sequence 10, Application US/08910856
; Patent No. 5981257

GENERAL INFORMATION:
; APPLICANT: FUKUI, TOSHIKI

APPLICANT: DOI, YOSHIHARU

TITLE OF INVENTION: POLYESTER SYNTHASE GENE AND PROCESS

TITLE OF INVENTION: FOR PRODUCING POLYESTER

NUMBER OF SEQUENCES: 16

CORRESPONDENCE ADDRESS:

ADDRESSEE: FISH & RICHARDSON P. C.

STREET: 4225 EXECUTIVE SQUARE, SUITE 1400

CITY: LA JOLLA

STATE: CA

COUNTRY: USA

STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: S.pristinaeaspiralis
US-08-403-852D-1

Query Match 3.2%; Score 92.2; DB 2; Length 5392;
Best Local Similarity 42.3%; Pred. No. 1.le-07;
Matches 889; Conservative 0; Mismatches 1193; Indels 21; Gaps 6;

QY 731 CGCTCGTGGAGTACAGTCGGCTCGAAGTACAAAGGCTTCTTCGGCCAGCTCGG 790
DB 2985 CGGCTGGCTCGGAGCAGCAGACACACCGACCCCGAGGGCCGACCGCGGAACCTATCGA 3044
QY 791 TGTCAAGTCCCTCGAGCGATGCGCCCTCTCTGAGGAGACAGGCGGAGAGGGGCTCGC 850
DB 3045 CGTGTTCGGCGGCTGTGGGAGAGCTTCGACGACGACGCTTCGTCACGACCGGCGCGA 3104
QY 851 CATCGAGTCGGCGCGCACCTCTAGACGCCCTGGGTGGCTGCTGCGAAGAGGTCTATGC 910
DB 3105 CGGCTGTACTGCGGCTGCGCGCTGCCCGCTCCAACTCGACACACGAGGCGAGCACTTGA 3164
QY 911 CGAGGAGTCACTCGCGCGACTAGCGGCACATCCAGCGCGCGCTCGTCAAAGCCGAGAT 970
DB 3165 CGTGGCGGCGCCCTCAAGCTGCGCGCGCGCGCGCGAGGGCCACCCCGTCTGTCGCGCTCAC 3224
QY 971 GGCCTCAAGCAGCGATGTCGACCATGTCGACGAGGTCTCTGGCGCGATGCCGTGCC 1030
DB 3225 CGGCGCGCGCTCGCGCGCGCGCGCGACCTCTGCTCTGCTCGAGGCGCGCGCGCGCG 3284
QY 1031 GACCGCGAGCGAGTGCAGCGCTCCAGGATCGGCTCCAGGAGTTCGCGCGCGAGGGCAA 1090
DB 3285 CTCGGTGAAGCAGCAGGACCGCAGCCGAGATCTCTCTGCTGCTGCCCGCGCGCGCGC 3344
QY 1091 GCGCGAGCGCCAGAGATCGAGACGCTGAAGCGGAGTTCGCGCGCTTGGCGCGCGCGCG 1150
DB 3345 CGAATGCGCGCGCAGCAGCGCGCGCGAGCGGCTTCAGGCTGGCGCTCACCGCTCCGACGA 3404
QY 1151 CGAGCGCGCGCGCGCGCGCTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1210
DB 3405 CCGCGTCTGCGCGCGCTCG 3464
QY 1211 GCGCGCGAGCG 1270
DB 3465 CTTGCGCGAAGCGCTGGGCTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3524
QY 1271 CACCGCGCAGTGTATGTCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1330
DB 3525 ACGACCGTTCGCGCGCGCTTCTTGGAGAGTCAATGTCGCGCTGCTTCACTCGGAG 3584
QY 1331 TTTCCGATCGATCGGCG 1390
DB 3585 TCGGTGACCGGGCGACCG 3643
QY 1391 CTTCGCGAGGGGTATGAGAACTGTCTCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1450
DB 3644 --CGCGCTGCTGCGCGAGGACCCCGCTCAAGGTCGCGGTGAGACCTGATCACCAC 3701
QY 1451 AAGGACGTCTCACCGCGAGGACAGCTGCTTCTTACCGCTACCGCGCGCGCGCGCGCG 1510
DB 3702 --GGCCAGGTCCACATCGCGCGGAGGTCAACCAAGCGGTACGCGCGCGCGCGCGCG 3758
QY 1511 GTGGGACCCAGACGATCCCGCTGTGATGCTTACCGCTACCGCGCGCGCGCGCGCGCG 1570
DB 3759 CTGGTCCGCGACACATCTCGGCTACGCTACGCTGCTCGCGCGCGCGCGCGCGCGCG 3818
QY 1571 ACCGACATCCAGGAGTGGCTCGAGATCAAGGGCGCTGCTCGCGCGCGCGCGCGCGCG 1630
DB 3819 GCCTCTGCGGCGTCTCGCTCTCCATCGCGCGCGAGTCCCGGACATCGCGCGCGCGCT 3878

QY 1631 TATCTGATCGACTGGGGCTACCCGGATCAGGCGGACCGGGCGCTGACCTCGATGACTAC 1690
DB 3879 GACAGCGCTTACGAGACCGCGCTCGAGGGCGAGGACGAG-----CTCGACGAGCAG 3932
QY 1691 ATCAACGCTACATCGACGCGCTGCTGCACTACCTGCGCGAGACCCAGGGCTGACACAG 1750
DB 3933 GCGCGCGGAGCACAGGCTGATGTTGGCTACGGCACCGACGAGACCCCTTCGCTGATG 3992
QY 1751 GTCAACCTGCTCGGATCTGCGAGGGCGGGCTTTGAGCTCTGCTTACACGGCCCTTGAC 1810
DB 3993 CGGCTGCCATCGAGCTCGCCACCGCTCTCGCGCGGCTCACGAGGTCCGCAAGGAC 4052
QY 1811 TCCGAGAAGGTCAAAAAGTGTGTCACCATGTCAGCGCGGTGCACTTCAGACACCGCGG 1870
DB 4053 GGCACCGTCCCTACTCTGCGCCCGACGCGCAAGACCCAGGTCACTCATGAGTACAGGGC 4112
QY 1871 AACCTGCTCTGCGCTGGGTCCAGAACTGCACTGTCAGCTGCGCGTCCGACACCATGGG 1930
DB 4113 AGCCCGCGGTGCGCTGACACCGTGTGCTCTCTCCAGACCGCCCGACATCGAC 4172
QY 1931 AACATCCGCGGCGAACTGCTCAACTGGACCTTCTCTGCTCAAGCCCTTTCAGCCTGACC 1990
DB 4173 CTCGCTCCCTGCTCACCCCGACATCCGCGAGCAGCTGCTGAGCAGCTCTCTCGCGCA 4232
QY 1991 GGCAGAAGTACGTCAACATGCTGCACTGCTCGAGCAGGAGCAAGGTCAAGAACTTC 2050
DB 4233 CTCGCGAGGACGATCAAGCTCGAGACGGAACAATACCGCTGCTGCTCAACCGGAC 4292
QY 2051 CTGCGGATGGAGAGTGGATCTTCGACAGCCGCGACCGGCGCGGAGACCTTCGCGCAG 2110
DB 4293 GGCCTGTTTGA-----GATCGCGCGCGGATGGGCGAGCTGACCGCGCGCAAG 4346
QY 2111 TTTCAACAGGACTTTACCGAGCGCAACGGCTTTCATCAACCGCGCGGTCTCTGATCGCGAT 2170
DB 4347 ATCATCATCGACACGTACGGCGCATGCGCGCGCATGCGCGCGGTGGCGGTCTCTCGGCA 4406
QY 2171 CAGGAGGTGCACTCGCGCAACATCGCTGCGCGGTCTGAAATCTACCCGATGAGGAC 2230
DB 4407 GACCGCTCAAGGTGCAACCGCTTTCGCGCGGTACGCGATGCGGTGCGCAAGACGTC 4466
QY 2231 CACTGCTGCGCGCGATGCTCTCAAGCCCTCGCGGAGTACCTTCAGCGAGGACTAC 2290
DB 4467 GTTCGCGCGGCTCGCTTCCGCTCGGAGTTCAGGTCGCTTACGCCATCGCGAAGGCC 4526
QY 2291 ACGGAGCTCGCTTCCCGCGGCGACATCGGCTATCTAGCTCAGCGGCAAGCGCGAGAA 2350
DB 4527 GAGCGGTGCGCTGCTGTCGAGACGTTGCGCACCGGACCGCTGCGCGAGGCG-GCAT 4585
QY 2351 GGAGTCAACCCCGCGATCGCGCGTGGTGAACGAAACGCGGCTGAGCGGGTGCAGCCAC 2410
DB 4586 CGAGAAGGCCATCACCGAGGTCTTCGACCTGCGCGCGCGCGCGCATCATCCGCGACCTCGA 4645
QY 2411 CCGCTCGAGCGGCGCGCGCGCATCGAAGCGCGCGCGCGCGCGCGCGCGCGCGCATCC 2470
DB 4646 CTGCTGCGGCGCATCTACGCGCGCACCGCGCGCGCGCGCTCAAGGCGCGCGCGCTCTG 4705
QY 2471 GCGCGCTGCGCGCGCGCGCGCTTTCGCGCGCGCGCGCGCATCGCGCGCGCGCGCTGG 2530
DB 4706 CGACTTCACTGGAGCGGACCGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTCTG 4765
QY 2531 CGTCAATGAGGTCTTCGCGAGC--GAGCCCGCATGCTCAACGAGGCTGATGGGCG 2588
DB 4766 AGCCGCGCGGACCTGTGAGGAGACCTGAGCTGCGCATGCTGTACCGGTTCCATCGCA 4825
QY 2589 CGGACCACTGCTGGCGCGGTACGACGCGCTGCGCGAGACCTACGAGCGCGCGCGCG 2648
DB 4826 CCGACCATCTGATGCTTTCGCGCGCGGTTCGCGGATAGCTGATTCGCCGACGAGCTCG 4885
QY 2649 GCTCTTTCGACATGCGCGCGGTGCTCGAGGACATCTTCGCCCGCTGCGCGCTGCGGCA 2708
DB 4886 CTCATGCTCTGCTCTCTCTCTGTCGACGCACTGAGGTGCGCGCGGCGGAGTGGCG 4945
QY 2709 CCTCTCTCGACCTCGGCTGCGCGCGCGGAGCGGTGCGCGCGCGCTTCTTCGACCGCG 2768

Db 4946 ACAACGTCCGCTTCGGCCCTCGCGGCTCGGCTCACCCCCCAGTGGTGGCGCGGTGG 5005
Qy 2769 GCTGGCGGTGACCGGGGTGAGACTTCTGCCCCGCCATGTCGCCCTCGCGGCGCGCTACG 2828
Db 5006 GCAGCGACTTCGCCGAGTACGAGGCTGGCTCAAGGAACACGCGCTCGACACCGGCGCG 5065
Qy 2829 TCC 2831
Db 5066 TCC 5068

RESULT 12
US-08-510-646B-1
; Sequence 1, Application US/08510646B
; Patent No. 607699
; GENERAL INFORMATION:
; APPLICANT: Blanc, Veronique
; APPLICANT: Blanchet, Francis
; APPLICANT: Crouzet, Joel
; APPLICANT: Jacques, Nathalie
; APPLICANT: Lacroix, Patricia
; APPLICANT: Thibaut, Denis
; APPLICANT: Zagorec, Monique
; APPLICANT: Debussche, Laurent
; APPLICANT: De Crecy-Lagard, Valerie
; TITLE OF INVENTION: Polypeptides Involved In The
; TITLE OF INVENTION: Biosynthesis Of Streptogramins, Nucleotide Sequences
; TITLE OF INVENTION: Coding For These Polypeptides And Their Use
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/510.646B
; FILING DATE: 03-AUG-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/403,852
; FILING DATE: 10-MAY-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR 93/00923
; FILING DATE: 25-SEP-1993
; APPLICATION NUMBER: FR 92/11441
; FILING DATE: 25-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 03806.0054-01000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 408-4000
; TELEFAX: (202) 408-4400
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5392 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: S.pristinaespiralis

US-08-510-646B-1
Query Match 3.2%; Score 92.2; DB 3; Length 5392;
Best Local Similarity 42.3%; Pred. No. 1.1e-07;
Matches 889; Conservative 0; Mismatches 1193; Indels 21; Gaps 6;
Qy 731 CGCTCGTGTGAGTACAGTTCGGCCCTGAAAGATACAAAGCTTCTTCGGCCAGCTCGG 790
Db 2985 CGGCTGGCTCGAGACGAGACACACCGAGCCCGAGGGCGGACCCGGCGAACTCATCGA 3044
Qy 791 TGTCAAAGTCCCTCGAGCGGATGCGCGCTTCTCGAGGACAGGCGCGAGAGGGGTGCG 850
Db 3045 CGTGTCCGCGGCTGTGGGACAGCTTCGACGACGACCTTGTTCACGACCGCGCGCA 3104
Qy 851 CATCGAGTTCGGCGGACACCTCTACGACGCTTGGGTGGCTGCTCGGAAGAGGTCTATGC 910
Db 3105 CGGCTGTACTGGCGGCTGCGCGCGCTCCACCACTCGACCAACAGGCGAGGCACTTCGA 3164
Qy 911 CGAGGAGTCAAGTCCGCGGACTAGCGGCAATCACCGCGGCTTCGTCAACGCCAGAT 970
Db 3165 CGTGGCGGCGCCCTCAACGTCGCGCGCGCGAGGGCCACCCGCTCGTTCGCGCGTCA 3224
Qy 971 GGCTCTCAAGCAGCGCATGTTCGACCATGTCGAGGTCTCGGCGGATCTCGGCGGATGCC 1030
Db 3225 CGGCGCGGCTTGGCGGCGCGGCGGCTCGTCTCGTCTCGACGAGGCGGCGGCGAG 3284
Qy 1031 GACCGCGACGAGTTCGCGACGCTTCAGGATCGGCTCCAGGAGTTCGCGCGGCGAGGCAA 1090
Db 3285 CTCGGTGAAGCAGGAGGACCGCAGCGCAAGATCTCTCTCGCGTCCCGCGCGCGCG 3344
Qy 1091 GCGCCAGCGCAAGAGATCGAGACGCTGAAGGGGAGTTCGGGCGCTTGGCGCGGCGG 1150
Db 3345 CGAATGCGCGCGGACAGCGCGCGGCGGCTTACGCTGCGGCTCACCGGCTCGGACGA 3404
Qy 1151 CCAGCGCGCGCGCGGCTTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1210
Db 3405 CCGGTCTCGCGCGGCTTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3464
Qy 1211 GCGCGGAGCG 1270
Db 3465 CTGGCGGAAAGCTGGGCTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3524
Qy 1271 CACCGCGAGTGTTCGGCGCGCGCGTCCATCGCGCACGAGAGAGTTCGCTGTCGCG 1330
Db 3525 ACGACCGCTCGCGCGCTGCTTCTGGAGAGTTCATGTCGCTCGCTGCTTCACTTCGG 3584
Qy 1331 TTCCGATCGATCCGCGCGGACGCTGACCGAGGAGATGCTGGAGTACAGCGCGCGAG 1390
Db 3585 TCCGTGACCGGCG 3643
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Db 3644 --CGCCCTGCTGGCGGAGGACCCCGCTCACGGTTCGGGTCGAGACCTGATCACCAC 3701
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Qy 1511 GTGGCGACCGAGACGATCCCGCTGCTGATGCTTCTAGCGCTCGTCAATCGGCGCTAC 1570
Db 3759 CTGGTCCCGGACGACGATCTTGGCCATCGGCTACGACTCGTCCGCGCAAGGGCTTC 3818
Qy 1571 ACCGACATCCAGGAGGATCGGTTCGACGATCAAGGCGCTTCGCGCGCGCGTTCAG 1630
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Qy 1631 TATCTGATCGACTGGGGCTACCCGGATCAGGCGGACCGGGCGCTGACCTGATGACTAC 1690
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QY 4173 CTGCGCTCCCTGCTCACCCCGACATCCGCGAGCAGTCTGTGAGCAGCTCTCTCCCGCA 4232
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QY 2171 CAGGAGGTCTGCTGCGCAACATCGCTCGCCGCTCTGAACATCTACCCGATCGAGGAC 2230
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QY 2291 ACGGAGCTGCGCTTCCCGCGGCGCACATCGGCATCTAGTCAAGCGGCAAGCGCAGGAA 2350
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QY 4527 GAGCGCGTGGCTGTTCGTTCGAGAGCTTTCGCGCACGCTCGCGCACCGCTCGCCGAGGC- GCAT 4585
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QY 2351 GGAGTCACCCCGCGATCGCGCGCTGGCTGACGACGCGGTGAGCGGCTCGACCCAC 2410
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QY 4586 CGAAGGCGCATACCGAGGTCTTCAGCTGCGCGCGCGCGCATATCCGCGACCTCGA 4645
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QY 2411 CGCTCGAGCGGCGCGCGGATCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2470
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QY 4646 CTGCTGCGGCGCATCTAGCGCGCACCGCGCTACGCGCACTTCGCGCGGCACTGCC 4705
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QY 2471 GCGCGCTGGCG 2530
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QY 4706 CGACTTCACCTGGAGCGGACCGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 4765
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QY 2531 CGTACATGACCGTCTTCGCGAGC--GAGCCCGCATCTGTCACGAGGCTCATGGGGG 2588
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QY 4766 AGCGCGCGGACCTGTGAGGAGACTGAGTGGCATGCTGTACCGGTTCATCGCGCA 4825
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QY 2589 CCGACCACTGCTGGCGCGGTACGACGCGCTGCGCGAGACCTACGACGCGCGCGCGCG 2648
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QY 4826 CGACCATCTGATGCTTCTCCCGCGGTTCGCGGATCAGCTGATCCCGACGAGCTCG 4885
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QY 4886 CTCATGCTCTGCTCTCTCTCTGTCGACGCACTCGAGTGGCGCGCGCGCGGAGTGGCG 4945
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QY 2709 CCTCTCGACCTCGCTGCGCGCGGAGCGTGGCGCGCGCTTCCTCGACCGCG 2768
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QY 4946 ACAAGCTGCTGCGCTTCGCGCGCGCTTCGCGCGCTCACCGCGCGCGCGCGCG 5005
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QY 2769 GCTGCGGCTGACCGGCGTGAATCTTCTGCGCGCGCATGCTCGCGCGCGCGCGCTAG 2828
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QY 5006 GCAGCGACTTCGCGGAGTACGAGGTCTGCTCAAGGAACACGCGGTTCGACACCGCGCGCG 5065
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QY 2829 TCC 2831

Db 5066 TCC 5068

RESULT 13

US-09-231-818-1
; Sequence 1, Application US/09231818
; Patent No. 6171846
; GENERAL INFORMATION:
; APPLICANT: Blanc, Veronique
; APPLICANT: Blanc, Francis
; APPLICANT: Crouzet, Joel
; APPLICANT: Jacques, Nathalie
; APPLICANT: Lacroix, Patricia
; APPLICANT: Thibaut, Denis
; APPLICANT: Zagorec, Monique
; APPLICANT: Debussche, Laurent
; APPLICANT: De Crecy-Lagard, Valerie
; TITLE OF INVENTION: Polypeptides Involved In The
; TITLE OF INVENTION: Biosynthesis Of Streptogramins, Nucleotide Sequences
; TITLE OF INVENTION: Coding For These Polypeptides And Their Use
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/231,818
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/403,852
; FILING DATE: 10-MAY-1995
; APPLICATION NUMBER: PCT/FR 93/00923
; FILING DATE: 25-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 92/11441
; FILING DATE: 25-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 03806.0054-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 408-4000
; TELEFAX: (202) 408-4400
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5392 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: S.pristinaespiralis
US-09-231-818-1

Query Match 3.2%; Score 92.2; DB 4; Length 5392;
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Qy	851	CATCGAGTCGGCGGCACCTCTACAGCCCTGGGTGGCTGCTGCGAAGAGGTCATATGC	910
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Qy	1211	GGCGGAGCGCGGCGCCAAAGCGCAGCACACGACCCGCGCAAGACACCAAGCCAC	1270
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Db	3819	GCCTCTGTGCGGCTCTCCGCTCTCATCGCGCGAGTCCCAGGATCGCCAGGCGTC	3878
Qy	1631	TATCTGATCGACTGGGCTTACCGGATACAGCGCAGACCGGCGGCTGACCTCGATGATAC	1690
Db	3879	GACAGCGCTTACGAGACCGCGTCTGAGGCGGAGGACGACGAG-----CTCGACCGAG	3932
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RESULT 14
US-08-458-568A-11/c
; Sequence 11, Application US/08458568A
; Patent No. 5821339

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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

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Total number of hits satisfying chosen parameters: 1077652

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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C 3	105	3.7	13613	10	US-09-861-289-3
4	88	3.1	88421	9	US-09-976-059-1
5	86.2	3.0	1680	10	US-09-820-721A-2
6	85	3.0	4257	9	US-09-825-288A-1
7	84.2	3.0	1248	9	US-09-860-846-7
8	84.2	3.0	1248	10	US-09-861-289-7
9	84	2.9	15872	9	US-09-860-846-1
10	84	2.9	15872	10	US-09-861-289-1
11	81.8	2.9	1680	9	US-09-364-847-20
12	81.8	2.9	2571	9	US-09-364-847-32
13	81.8	2.9	2571	9	US-09-364-847-34
C 14	81	2.8	4826	10	US-09-772-304A-1
15	78.4	2.8	1992	10	US-09-815-242-7772
16	74.6	2.6	3624	9	US-09-988-462-6
17	74	2.6	13842	9	US-09-860-846-30
18	74	2.6	13842	10	US-09-861-289-30
19	74	2.6	36778	9	US-09-860-846-5

20	74	2.6	36778	10	US-09-861-289-5	Sequence 5, Appli
21	73.4	2.6	13613	9	US-09-860-846-3	Sequence 3, Appli
22	73.4	2.6	13613	10	US-09-861-289-3	Sequence 3, Appli
23	73	2.6	2334	10	US-09-476-242-7	Sequence 7, Appli
24	72.8	2.6	1272	10	US-09-815-242-4008	Sequence 4008, Ap
25	72.6	2.5	1518	9	US-09-934-060A-23	Sequence 23, Appl
26	72.6	2.5	1518	9	US-09-934-060A-29	Sequence 29, Appl
27	72.6	2.5	1518	9	US-09-950-335A-21	Sequence 21, Appl
28	72.6	2.5	1518	9	US-09-950-335A-23	Sequence 23, Appl
29	72.6	2.5	1668	9	US-09-934-060A-5	Sequence 5, Appli
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31	72.6	2.5	2159	9	US-09-934-060A-3	Sequence 3, Appli
32	71.8	2.5	2316	10	US-09-476-242-8	Sequence 8, Appli
33	70.6	2.5	2310	10	US-09-476-242-3	Sequence 3, Appli
34	70.6	2.5	2712	10	US-09-748-033-4	Sequence 4, Appli
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36	70	2.5	2541	10	US-09-476-242-10	Sequence 10, Appl
37	70	2.5	2541	10	US-09-476-242-11	Sequence 11, Appl
38	70	2.5	2541	10	US-09-476-242-12	Sequence 12, Appl
39	69.8	2.4	6798	9	US-09-918-740-57	Sequence 57, Appl
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41	69.6	2.4	1731	9	US-09-364-847-36	Sequence 36, Appl
42	69.6	2.4	2139	9	US-09-364-847-48	Sequence 48, Appl
43	69.6	2.4	2139	9	US-09-364-847-50	Sequence 50, Appl
44	69.2	2.4	2322	10	US-09-476-242-18	Sequence 18, Appl
45	69.2	2.4	2322	10	US-09-476-242-19	Sequence 19, Appl

ALIGNMENTS

RESULT 1
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; Sequence 1, Application US/09779427
; Patent No. US20010031489A1
; GENERAL INFORMATION:
; APPLICANT: STEINBUCHER, Alexander
; APPLICANT: LIEBERGSELL, Matthias
; APPLICANT: VALENTIN, Henry
; APPLICANT: PRIES, Andreas
; TITLE OF INVENTION: Process for manufacturing polyhydroxylic fatty acids, and recomb
; TITLE OF INVENTION: bacterial strains for carrying out the process
; FILE REFERENCE: MOBT:152-2 - 11899.0152.DVUS01
; CURRENT APPLICATION NUMBER: US/09/779,427
; CURRENT FILING DATE: 2001-02-08
; PRIOR APPLICATION NUMBER: US 09/420,119
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US 08/809,286
; PRIOR FILING DATE: 1997-07-03
; PRIOR APPLICATION NUMBER: WO 96/08566
; PRIOR FILING DATE: 1995-09-15
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 2849
; TYPE: DNA
; ORGANISM: Thiocapsa pfennigii
US-09-779-427-1

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Best Local Similarity	100.0%	Pred. No. 0			
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Db 121 AGTGCAAAATTTCCGTGCTAGCTTCACTGCTATCAGCCCCAGACGAGGAAGATTCAACG 180
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Qy 361 GCGACTTCATGAGAAAGCTCGCGAGCAGGCAAGGCCCTTTCTTGGCCTCAACCGACTACT 420
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Qy 421 TCACGAAGGGCTCGGCGCGCAGTAGCGGTACGAGGGCTGGAGACACCTCTCGAAGACCA 480
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Qy 481 TCGACGACATGCAAAAGGCTTTGCCAGCGCGCGGATCGAAGCGACGAGACTTCCGCC 540
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Qy 541 GCCTGATGGCTTTCTGGGAGATGCCCTCGACAACTGGCAGCGCACCTGTCTCGCTGT 600
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Qy 601 CCCGGTGGCCCGGACCTGTGCGCAACATCGCGACACCAAGTCAAGGACAGCGTGC 660
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Db 1141 CCGCGGCGCCAGCCCGCGCCCAAGGCTTCGCGCCAGCCAGCACCCGGCCCGGCGCG 1200
Qy 1201 CGACGGCCCCGGGCGAGCGCGGCCCAAGGCGAGCAACGAGCCCGCCCAAGACCA 1260
Db 1201 CGACGGCCCCGGGCGAGCGCGGCCCAAGGCGAGCAACGAGCCCGCCCAAGACCA 1260

Qy 1261 CCAAGCCCAACCGGCCAGTGTTCGGCGCGCCGTCCTATCGCCACCGAGGAGAGTGC 1320
Db 1261 CCAAGCCCAACCGGCCAGTGTTCGGCGCGCCGTCCTATCGCCACCGAGGAGAGTGC 1320
Qy 1321 CGTGTCCCATTTCCGATCGACATCCGGCCCGACAAAGCTGACCGAGGAGATGCTGGAGTA 1380
Db 1321 CGTGTCCCATTTCCGATCGACATCCGGCCCGACAAAGCTGACCGAGGAGATGCTGGAGTA 1380
Qy 1381 CAGCGCAAGCTCGGCGAGGTATGCAGAACTGCTCAAGGCCGACAGATGCACACAGG 1440
Db 1381 CAGCGCAAGCTCGGCGAGGTATGCAGAACTGCTCAAGGCCGACAGATGCACACAGG 1440
Qy 1441 CGTCAACCCCAAGGACGCTGCTCCACCGGAGGACAAGCTGGTCTCTACCGCTACCGGCG 1500
Db 1441 CGTCAACCCCAAGGACGCTGCTCCACCGGAGGACAAGCTGGTCTCTACCGCTACCGGCG 1500
Qy 1501 CCGGCGAGGTGGGACCCAGACGATCCCGTCCGTCGTCGATCGTACGGCTCTGTCATTCG 1560
Db 1501 CCGGCGAGGTGGGACCCAGACGATCCCGTCCGTCGTCGATCGTCTACGGCTCTGTCATTCG 1560
Qy 1561 GCCCTACATGACCGACATCCAGGAGGATCGCTCGACGATCAAGGGCTGCTCGCCACCGG 1620
Db 1561 GCCCTACATGACCGACATCCAGGAGGATCGCTCGACGATCAAGGGCTGCTCGCCACCGG 1620
Qy 1621 TCAGGACGCTCTATCTGATCGACTGGGGTACCCGGATCAGGCGCGACCGGGGCTGACCT 1680
Db 1621 TCAGGACGCTCTATCTGATCGACTGGGGTACCCGGATCAGGCGCGACCGGGGCTGACCT 1680
Qy 1681 CGATGACTACATCAACGGCTACATCGACCGTTCGCTGACTACCTCGCGGAGACCAAGG 1740
Db 1681 CGATGACTACATCAACGGCTACATCGACCGTTCGCTGACTACCTCGCGGAGACCAAGG 1740
Qy 1741 CGTCGACGAGTCAACCTGCTCGGGATCTGCGAGGGCGGGGCTTCAAGGCTTGTACAC 1800
Db 1741 CGTCGACGAGTCAACCTGCTCGGGATCTGCGAGGGCGGGGCTTCAAGGCTTGTACAC 1800
Qy 1801 GGCCCTGACCTCCGAGAAAGTCAAAACCTGCTCACCATGGTCAAGCCGCTCGACTTCCA 1860
Db 1801 GGCCCTGACCTCCGAGAAAGTCAAAACCTGCTCACCATGGTCAAGCCGCTCGACTTCCA 1860
Qy 1861 GACCCCGGGAACCTGCTCTCGGCTGGGTTCAGAACTGTCAGCTCGACTGCGGCGTGA 1920
Db 1861 GACCCCGGGAACCTGCTCTCGGCTGGGTTCAGAACTGTCAGCTCGACTGCGGCGTGA 1920
Qy 1921 CACCATGGGCAACATCCCGGGGAACTGCTCAACTGGAACTTCTCTGCTCAAGCCCTT 1980
Db 1921 CACCATGGGCAACATCCCGGGGAACTGCTCAACTGGAACTTCTCTGCTCAAGCCCTT 1980
Qy 1981 CAGCCTGACCGGCGCAGAAAGTACGTCAACATGGTGCACCTGCTCGACGACGAGGACAAAGT 2040
Db 1981 CAGCCTGACCGGCGCAGAAAGTACGTCAACATGGTGCACCTGCTCGACGACGAGGACAAAGT 2040
Qy 2041 CAAGAACTTCTCGGGATGAGAAAGTGGATCTTTCAGAGCCGAGCCAGGCGCGGAGAC 2100
Db 2041 CAAGAACTTCTCGGGATGAGAAAGTGGATCTTTCAGAGCCGAGCCAGGCGCGGAGAC 2100
Qy 2101 CTTCCGCGAGTTCATCAAGGACTTCTACAGGCAACGGCTTCAACAGCGGCGGCTCT 2160
Db 2101 CTTCCGCGAGTTCATCAAGGACTTCTACAGGCAACGGCTTCAACAGCGGCGGCTCT 2160
Qy 2161 GATCGGCGATCAGGAGGTTCGACCTGCGCAACATCGCTGCGCGGCTCTGAAACATCTACCC 2220
Db 2161 GATCGGCGATCAGGAGGTTCGACCTGCGCAACATCGCTGCGCGGCTCTGAAACATCTACCC 2220
Qy 2221 GATGAGGACCACTGGTTCGCGCGGATGCTTCCAAAGGCCCTTCGCGGAGTGAACCTCAG 2280
Db 2221 GATGAGGACCACTGGTTCGCGCGGATGCTTCCAAAGGCCCTTCGCGGAGTGAACCTCAG 2280
Qy 2281 CGAGGACTTACAGGAGCTCGCTTCCCGGGGCAATCGGCATCTACGTCAGCGGCA 2340
Db 2281 CGAGGACTTACAGGAGCTCGCTTCCCGGGGCAATCGGCATCTACGTCAGCGGCA 2340

QY 2341 GCGCAGGAGGAGTCAACCCGCGGATCGCGCTGGCTGAACGAACGCGGCTGAGCCG 2400
DB 2341 GCGCAGGAGGAGTCAACCCGCGGATCGCGCTGGCTGAACGAACGCGGCTGAGCCG 2400
QY 2401 GTTCAGCCACCCGCTCGACGGGCGCGCGGGGATCGAAGGCGCGCGCGCGCCCA 2460
DB 2401 GTTCAGCCACCCGCTCGACGGGCGCGCGGGGATCGAAGGCGCGCGCGCCCA 2460
QY 2461 TGAGCCATCGCGGCGCTGGCGCCGCCCGACCTTCGCGCGCGCACCCGATCGCCC 2520
DB 2461 TGAGCCATCGCGGCGCTGGCGCCGCCCGACCTTCGCGCGCGCACCCGATCGCCC 2520
QY 2521 CCGCGCTCGCTACATGACGGTCTTCGGAGCGAGCCCGCGATCGTCAACGGAGGCTG 2580
DB 2521 CCGCGCTCGCTACATGACGGTCTTCGGAGCGAGCCCGCGATCGTCAACGGAGGCTG 2580
QY 2581 CATGGCGCGGACCAACTGTGCGCGCTACGACGCGTGGCGGAGACCTACGACGC 2640
DB 2581 CATGGCGCGGACCAACTGTGCGCGCTACGACGCGTGGCGGAGACCTACGACGC 2640
QY 2641 CCAACCGCGCTCTTCGACATGCGCGCGTGTCTGAGGACATCTTCGCGCGCTGCGGC 2700
DB 2641 CCAACCGCGCTCTTCGACATGCGCGCGTGTCTGAGGACATCTTCGCGCGCTGCGGC 2700
QY 2701 CTGCGGACCCCTCTGACCTCGGCTGCGCGCGCGGAGCGTGGCGGCGCTTCCT 2760
DB 2701 CTGCGGACCCCTCTGACCTCGGCTGCGCGCGCGGAGCGTGGCGGCGCTTCCT 2760
QY 2761 CGACCGCGCTGGCGGCTGACCGGGTGGACTTCTGCCCGGCGATGCTCGCGCTGCGGC 2820
DB 2761 CGACCGCGCTGGCGGCTGACCGGGTGGACTTCTGCCCGGCGATGCTCGCGCTGCGGC 2820
QY 2821 GCGCTACGTCCTCCGAGATGGAGCGGATCC 2849
DB 2821 GCGCTACGTCCTCCGAGATGGAGCGGATCC 2849

RESULT 2
US-09-860-846-3/c
; Sequence 3, Application US/09860846
; Patent No. US2002016472A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Xue, Y.
; APPLICANT: Zhao, L.
; TITLE OF INVENTION: DNA encoding methymycin and pikromycin
; FILE REFERENCE: 600.438US1
; CURRENT APPLICATION NUMBER: US/09/860,846
; CURRENT FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 09/105,537
; PRIOR FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 13613
; TYPE: DNA
; ORGANISM: Streptomyces venezuelae
US-09-860-846-3

Query Match 3.7%; Score 105; DB 9; Length 13613;
Best Local Similarity 45.7%; Pred. No. 1.5e-10;
Matches 653; Conservative 0; Mismatches 745; Indels 31; Gaps 7;
QY 1351 CGACAAGCTGACCGAGAGATGCTGGAGTACAGCCGACAGCTCGGCGAGGATGAGAA 1410
DB 12734 CGGCCGCTCGTCCGAGTTCAGAGAGCGGTGCGCGGCTCGCGGGTCCGGCATGC 12675
QY 1411 CTGTCTCAAGGCGGACAGATCGACACAGCGCGTCAACCCCAAGAGCGTCTGTCACCGCGA 1470
DB 12674 CTGTGCGACCTGCAAGCCACGCGCGGGTCTGAGCTCTTCGCGCACCGCGCGGCTCAC 12615
QY 1471 GGACAAGCTGGTCTCTACCGCTACCGGCGCGCGCGGCGAGGTGGCGACCCAGACGATCCC 1530

DB 12614 CCGCGAAGTGATCATGCGCTCGATACGTTGCGCCCAACCCCGCACGCACTCGCTGGT 12555
QY 1531 GCTGTGATCGTCTACGCGCTCGTCAATCGGCTTACATGACCGACATCCAGGAGATCG 1590
DB 12554 CCGCTCACCCCGGCTTCGCGGACATCGACCGGACCGGCAACCTCGACCCGACCA 12495
QY 1591 CTCGACGATCAAGGCGCTGTCGCCACCGGTGAGGAGTCTATCTGATGCACTGGGGCTA 1650
DB 12494 GGTGGCGCGCGGTTCACACCCGACCTCGGCTCGGCGTCCACCTCTGGGGCG 12435
QY 1651 CCGGATCAGGCGGACCGGCGCTGACCTCGATGACTACATCAACGGCTACATCGACCG 1710
DB 12434 CCGCTGCGCGCGGACAGTTCGGAAGGTCCCGACGAGCAAGGCTCGGCTGTACTT 12375
QY 1711 CTGCTTCGACTACCTGCGCGAGACCCAGGCTGACAGGTCAACCTGCTCGGATCTG 1770
DB 12374 CGACCGCGGACG-----CCCTCGGCTGCGGTCGAGCGCGCGCGCGGAG 12324
QY 1771 CAGGCGGCGGCTTCAGCTCTGCTACAGGCTCTGACTCCGAGAGGTCAAAAACCT 1830
DB 12323 CCTCGCGACGCGGAGTCTTCAGCTTCACGCGCACCAAGGCGCTCAACGCTTCGAGG 12264
QY 1831 CGTCAACATGCTCAGCGGCTGACTTCAGACTCCGAGACCGGCGACCTGCTCTCGGCTGGT 1890
DB 12263 CCGCGCGCTGCTCAACGACGCGGCTGCTCGCGCGCGGATCC-----GCGCCCT 12213
QY 1891 CCAGAACGCTCGACGCTGCGGCTGACACCATGATGGCAACATCCCGGGCGAATGCT 1950
DB 12212 CCACAACCTCGGCTTCGACCTGCGCGGAGCGCGCGGCGGACCAACGCGCAAGAT 12153
QY 1951 CAACTGAGACCTTCCTGCTCAAGCCTTACGCTGACCGGCGAGAGTACGTCAACAT 2010
DB 12152 GAGCGAGCGCGCGCGCTGAGGCTCACTCTCGACGCGCTTCGCGAGTTCATCGA 12093
QY 2011 GGTGACCTGCTGACGAGGAGGACAAGGTCAAGAACTCTCTGCGGATGGAGAGTGGAT 2070
DB 12092 CCGGAACCGCGGCAACCGCGCTACCGGAGACCTTCGCGGACCTCCCGGCGTCT 12033
QY 2071 CTTCACAGCGCGGACGAGCGCGGAGACTTCGCGCAGT---TCATCAAGGACTTCTA 2127
DB 12032 CGTTCGCGACGACGACCGCGGCTCAACAAACACGATGATGCTCGAGATCGA 11973
QY 2128 CCAGCGCAACCGCTTCATCAACGCGGCTGCTGATCGCGGATCAGGAGGTGCA---CCT 2184
DB 11972 CGAGCGCAACCGGCTACCGCGGCTGCTGATGAGGTCTCTGAAGGCGAAGGCT 11913
QY 2185 GCGCAACATCGCTGCGCGGCTCTGAACTACCGGATGAGGAGGACCTGTCGCGCG 2244
DB 11912 GCACACCGCGGCTACTTCTCGCGGCTGCGGAGCTGAGGAGGCGCTACCGCGGAGCG 11853
QY 2245 GGATGCTCCAAAGGCGCTCGCGGAGTGAACCTTCAGCGAGGACTACACGAGCTCGCTT 2304
DB 11852 GCACGCGCGCTGCGGACACCGGAGCGCTCGCGCGCGGCTGCTGCTCCTCGCGACCG 11793
QY 2305 CCGCGCGGCGACATCGGATCTACCTCAGCGGCAAGGCGAGGAGGAGTCAACCCCGC 2364
DB 11792 CACCGCATCGCGGAGGACATCGCGGCTGCGCGGCTGCTGCTGCTGCGCGAC 11733
QY 2365 GATCGCGCTGCTGAGAACGCGGCTGAGCGGCTGACCGGCTGACCCCGCTCGACGGGCG 2424
DB 11732 CCGCGCGCGGAACTGACCGCGGCTGCGCGGAGCGCGCGCGCGCGCGCTCG---CGGCG 11675
QY 2425 CCGCGCGGCGCATCAAGGCGCGCGCGGCGGCGGCTGAGGCTATCGCGCGCTGCGCGC 2484
DB 11674 CCGGAGATCATCGCGCGGCGGCTGAGGCTGCGCGGCTGCGCGCGCTGCGCGC 11616
QY 2485 CCGCGCGGCGGCTGCGCGCGGCGGCTGCGCGGCTGCGCGGCTGCGCGGCTGCGCGG 2544
DB 11615 ACCGCGCGGCGGAGCGTTCGCGGACCCCGGAGCGGCTGCGGGGCGGCGGCTGCGCG 11558
QY 2545 CTTTCGCGAGCGCGCGGCTGCTCAAGGAGGCTGCTGAGGCGCGGCGGCGGCGGCTGCT 2604

Db 11557 --CCGTGCGCCAGACCTTCGCCCGCGCGCTCTGTCGCCCGAGAGCGGAAACGAC 11500
Qy 2605 GGCCTGCTACGACGCGCTGCGCGAGACCTTACGACGCCACCGCGCTCTTCGACATGGG 2664
Db 11499 CGCCCGCCACCTCGTCCGCTCGCGTGGCTAGGCAACAGCCCTTCAACCCCGCTGGA 11440
Qy 2665 CGCGTGTCTGAGGACATCTTCCCGCTGCGCGCTGCGGCTCGGACCTCTCTGACCTGG 2724
Db 11439 GGAGCGCCCGCCAGACCTTGGGCTGTCACCGGAGCGCTTCCGCGCGCTCTCTGCGCTGTT 11380
Qy 2725 CTGCGCGCGCGGAGCGCTGCGCGCGCGCTTCTCTGACCGCGGCTGG 2773
Db 11379 CGGCGAGTCCCGAGCTCCGACCGCTCGAGACCGCGCGCGCGG 11331

RESULT 3

US-09-861-289-3/c

; Sequence 3, Application US/09861289

; Patent No. US2002011089/A1

; GENERAL INFORMATION:

; APPLICANT: Sherman, D.H.

; APPLICANT: Liu, H.

; APPLICANT: Xue, Y.

; APPLICANT: Zhao, L.

; TITLE OF INVENTION: DNA encoding methymycin and pikromycin

; FILE REFERENCE: 600.438US1

; CURRENT APPLICATION NUMBER: US/09/861,289

; CURRENT FILING DATE: 2001-05-18

; PRIOR APPLICATION NUMBER: 09/105,537

; PRIOR FILING DATE: 1998-06-26

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 3

; LENGTH: 13613

; TYPE: DNA

; ORGANISM: Streptomyces venezuelae

US-09-861-289-3

Query Match 3.7%; Score 105; DB 10; Length 13613;
Best Local Similarity 45.7%; Pred. No. 1.5e-10;
Matches 653; Conservative 0; Mismatches 745; Indels 31; Gaps 7;

Qy 1351 CGACAAGCTGACCGAGGAGATGCTGAGGTACAGCCGCAAGCTCGGCGAGGGTATGCAGAA 1410
Db 12734 CGCGCCGCTCGTCCGCGAGTTCCAGAGCGCGTCCGCGGGCTCGCGGGGTCCGGCATGC 12675
Qy 1411 CTGCTCAAGGCGGACCATGCACACAGCGCTACCCCAAGGAGCTGCTCCACGGCA 1470
Db 12674 CGTGGCCACTCGCAAGCCACGCGCGGGCTCCAGCTCTCGCGCACGCGCGGCTCAC 12615
Qy 1471 GGACAAGCTGGTCTCTACCGCTACCGCGCGCGCGGCGAGGTGGGACCCAGCATCCC 1530
Db 12614 CGCGGAGTGATATGCGCTGATGAGTTCGCGGCCACCCGACGCACTCGCTGGAT 12555
Qy 1531 GTGCTGATGCTTACGCCCTCGTCAATCGGCCCTACATGACCGACATCCAGGAGATCG 1590
Db 12554 CGGCTCTACCCCGCTTTCGCGACATGACCCGAGACCGGCAACCTCGACCCGCA 12495
Qy 1591 CTCGAGGATCAAGGCGCTGCTGCCACCGGTGAGGACGTCTATCTGATGATGAGTGGGCTA 1650
Db 12494 GGTGGCGCGCGGGTTCACACCCCGCACTTCGCGCGCTTCGCGGCTCCACTCTGGGGCGG 12435
Qy 1651 CCGGATCAGGCGGCGCGGCGGTGACCTCTGATGACTATACATCAACGGGTATACGACCG 1710
Db 12434 CCGCTGCGCGCGGACGACTCGGAGAGTTCGCGGAGAGAGGCGCTCGGCTGTACTT 12375
Qy 1711 CTGCTGCTGACTTACCTGCGGAGACCCACCGCGCTCGACAGGTCAACCTCTCGGATCTG 1770
Db 12374 CGACGCGCGGCAAG-----CCCTCGCTGCGGGTTCGAGCGCGCGCGCGCGGCGAG 12324
Qy 1771 CCAGGCGCGGCTTACGCTCTGCTACAGCGCTGCTGCTGCTGAGAGGTCAAAAACCT 1830
Db 12323 CCTCGCGGACGCGGAGGTCTTCACTTCCAGCTTCCACGCCACCAAGGCGGTCAACGCTTCGAGGG 12264

RESULT 4

US-09-976-059-1

; Sequence 1, Application US/09976059

; Patent No. US2002016474/A1

; GENERAL INFORMATION:

; APPLICANT: Farnet, Chris

; APPLICANT: Zazopoulos, Emmanuel

APPLICANT: Staffa, Alfredo
TITLE OF INVENTION: Genes and Proteins for Biosynthesis of Ramoplanin
FILE REFERENCE: 3019-PCT
CURRENT APPLICATION NUMBER: US/09/976,059
CURRENT FILING DATE: 2001-10-15
NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1
LENGTH: 88421
TYPE: DNA
ORGANISM: Actinoplanes sp.
FEATURE:
NAME/KEY: misc feature
LOCATION: (2077)..(3078)
OTHER INFORMATION: ORF 1; positive strandedness
NAME/KEY: misc feature
LOCATION: (3118)..(4032)
OTHER INFORMATION: ORF 2; positive strandedness
NAME/KEY: misc feature
LOCATION: (4038)..(5048)
OTHER INFORMATION: ORF 3; positive strandedness
NAME/KEY: misc feature
LOCATION: (6665)..(5814)
OTHER INFORMATION: ORF 4; negative strandedness
NAME/KEY: misc feature
LOCATION: (7703)..(6693)
OTHER INFORMATION: ORF 5; negative strandedness
NAME/KEY: misc feature
LOCATION: (9464)..(8130)
OTHER INFORMATION: ORF 6; negative strandedness
NAME/KEY: misc feature
LOCATION: (9691)..(10761)
OTHER INFORMATION: ORF 7; positive strandedness
NAME/KEY: misc feature
LOCATION: (12751)..(10829)
OTHER INFORMATION: ORF 8; negative strandedness
NAME/KEY: misc feature
LOCATION: (13617)..(12802)
OTHER INFORMATION: ORF 9; negative strandedness
NAME/KEY: misc feature
LOCATION: (15203)..(13614)
OTHER INFORMATION: ORF 10; negative strandedness
NAME/KEY: misc feature
LOCATION: (15591)..(15863)
OTHER INFORMATION: ORF 11; positive strandedness
NAME/KEY: misc feature
LOCATION: (15880)..(19035)
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NAME/KEY: misc feature
LOCATION: (19032)..(39713)
OTHER INFORMATION: ORF 13; positive strandedness
NAME/KEY: misc feature
LOCATION: (39713)..(65800)
OTHER INFORMATION: ORF 14; positive strandedness
NAME/KEY: misc feature
LOCATION: (65826)..(66530)
OTHER INFORMATION: ORF 15; positive strandedness
NAME/KEY: misc feature
LOCATION: (66546)..(67370)
OTHER INFORMATION: ORF 16; positive strandedness
NAME/KEY: misc feature
LOCATION: (67384)..(70059)
OTHER INFORMATION: ORF 17; positive strandedness
NAME/KEY: misc feature
LOCATION: (70059)..(70662)
OTHER INFORMATION: ORF 18; positive strandedness
NAME/KEY: misc feature
LOCATION: (70659)..(71906)
OTHER INFORMATION: ORF 19; positive strandedness
NAME/KEY: misc feature

LOCATION: (73439)..(71964)
NAME/KEY: misc feature
OTHER INFORMATION: ORF 20; negative strandedness
LOCATION: (74216)..(73563)
OTHER INFORMATION: ORF 21; negative strandedness
NAME/KEY: misc feature
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OTHER INFORMATION: ORF 22; negative strandedness
NAME/KEY: misc feature
LOCATION: (75535)..(76464)
OTHER INFORMATION: ORF 23; positive strandedness
NAME/KEY: misc feature
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OTHER INFORMATION: ORF 25; negative strandedness
NAME/KEY: misc feature
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OTHER INFORMATION: ORF 26; negative strandedness
NAME/KEY: misc feature
LOCATION: (81909)..(81682)
OTHER INFORMATION: ORF 27; negative strandedness
NAME/KEY: misc feature
LOCATION: (82346)..(82062)
OTHER INFORMATION: ORF 28; negative strandedness
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LOCATION: (82587)..(84446)
OTHER INFORMATION: ORF 29; positive strandedness
NAME/KEY: misc feature
LOCATION: (84481)..(85548)
OTHER INFORMATION: ORF 30; positive strandedness
NAME/KEY: misc feature
LOCATION: (85556)..(86845)
OTHER INFORMATION: ORF 31; positive strandedness
NAME/KEY: misc feature
LOCATION: (87372)..(86803)
OTHER INFORMATION: ORF 32; positive strandedness
NAME/KEY: misc feature
LOCATION: (87494)..(88420)
OTHER INFORMATION: ORF 33; positive strandedness; N-terminus only
US-09-976-059-1
Query Match 3.1%; Score 88; DB 9; Length 88421;
Best Local Similarity 42.6%; Pred. No. 2.1e-07;
Matches 869; Conservative 0; Mismatches 1145; Indels 24; Gaps 7;
Qy 825 CAGGACAGGCGGAGAGGGCGTCGCCATCGAGTCGGCGCGCACCCCTCTACGACGCTGG 884
Db 54839 CACGGCGGCGCGGCGCTGACCGCGGAGCGCTTCGGTGGCGGCGGCGGTGAG 54898
Qy 885 GTCGGCTCTCGAAGAGGTCTATGCGGAGGAGGTGAGTCGCGCGAGCTACGCGCACATC 944
Db 54899 CGGATGTACCGACCGCGGACCGGGTCCGGTGGAGCCCGGGCGGAGCGCTGAGTTCCTG 54958
Qy 945 CACGGCGGCTCTGTCACGCCCCAGATGGCCCTCAAGCAGCGCATGTCGACCATGTCGAC 1004
Db 54959 GCGCGGTCGACGACCAAGGTCAAGATCCGCGTTTCGCGATCGAGCTGGCGGAGTTCGAG 55018
Qy 1005 GAGTCTCTGGCGGATGCGCGTCCCGACCGCGCAGCGAGCTGCGGACGCTCCAGGATCGG 1064
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Qy 1065 CTCAGGAGTTCGCGGCGGAGGCGCAAGCGCCAGAGATCGAGACGCTGAAGCGG 1124
Db 55079 CCGGCGGACCGCGGCTCTGCGGTATGTGTCGCGGCGGCGGCGGAGCGGAGCGCCGAC 55138
Qy 1125 CAGTTCGCGGCTTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1184
Db 55139 CCGGCGGCGGTCGCGCGCACGTCGCGCGCCAGCTGCGCGCTACATGTCGCGTCCGCGG 55198
Qy 1185 ACCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1244

Db 55199 GTCGTGCTCTCCCGACCTCGCGGTGACCGCGAAGCGCAAGCTCGACCGCAAGCGCGTGG 55258
Qy 1245 ACCCGCCGCAAGACCAACAAAGCCACCAACCGGCCAG-----TGATGTGGCGCGCCGTCC 1299
Db 55259 CCGGACCCGACTACGGCGCGCTCCGCGCGCGGACCGGCCGACGAGCGCGAGGCG 55318
Qy 1300 ATGCCACAGAGAGAGTGCCTGTCCTCCATTCCTCGATTCGACATCCGCGCCCGCAAGCT 1359
Db 55319 CTCATCTGC-GCGGTGTTCCGCGAGACGCTCGCGGTGACCGAGTCCGAGCGATGCCGA 55377
Qy 1360 GACCGAGGAGATGCTGGAGTACAGCCGAAGCTCGCGGAGGATATGCAAACTCTCTCAA 1419
Db 55378 CTTCTTCCCGCTGGCGGCGCATTCGTGTGTCGCGTGTGCTGGTGAACGTTGCGCGA 55437
Qy 1420 GCGCGACAGATCGACACAGGCGGTCAACCCCAAGACGTCGTCCACCGCGAGCAAAAGCT 1479
Db 55438 GCACGGCATCGCGGTTCGCGTCCGCGCCCTGTTCAGTCCGGGCAACCCCGAGGCGCTGCG 55497
Qy 1480 GGTCTCTTACCGCTACCGCGCGCGCGGCGAGGTGGGACCCAGACGATCCCGCTCTGTAT 1539
Db 55498 CGCCCGCGCGCGCGCGAGGCGCCGGAACGAGCCGCGTGGCGGCCAAACGGCATCCCGGA 55557
Qy 1540 CGTCTACGCGCTCTCAATCGCGCCCTACATGACCGACATCCAGGAGGATCGCTGACGAT 1599
Db 55558 CGCGCGCACCGCGCTCACCGCGCGATGCTCACCTCTGTCGACCTCGACCGCGAGGAT 55617
Qy 1600 CAAGGCGCTGCTCGCCACCGCTCAGGACGCTCTATCTGATCGACTGGGGCTACCCGGATCA 1659
Db 55618 CGCCCGGTGCTCGCGCGTCCGCGCGGCGCGGCGGCGGAGCTCTATCCGCT 55677
Qy 1660 GCGCGACCGCGCGTGAACCTCGATGACTATCAATCAACGCGCTACATCGACCGTGTGCTGA 1719
Db 55678 CGCGCGCTGACGAGGCGTGTCTCTTCCACAGCCTGATGAGCGCGCGCGACGCTGTA 55737
Qy 1720 CTACTGCGGAGACCCAGCGGTGACACAGTCAACTGCTCGGGATCTGCCAGGCGG 1779
Db 55738 CGTGCTCGCGCGCTCTCGAATTGATTCGCGGTCCCGCTCGACGCGCTTCTGGCGCG 55797
Qy 1780 G-----GCTTCAGCCTCTGTACAGGCGCTGACCTCGAGAGAGTCAAAAACCTCGT 1833
Db 55798 GTGCAACAGTGTATCGACCGGACGACAGCTTACCGGACCGGCTGTGTGACGACGGCT 55857
Qy 1834 CACCATGTACCGCGGTGCACTTCAGACCCCGGCGCAACCTGCTCTCGCGCTGGGTGCA 1893
Db 55858 GCGCGAGCGGTGCAAGTGTCTGCGCGCGCGCGCACGCTGCGCGTCAAGAGGTGACCT 55917
Qy 1894 GAACGTGACGTGACCTGCGCTGACACATGGCAACATCCCGGCGCACTGCTCA 1953
Db 55918 GACCGCGCGCGCGCGCGGTGCGAGAACTGCTCGCGCACCGCGCGGTGAGTTGCGGT 55977
Qy 1954 CTGGACCTTCTCTGCTCAAGCGCTTACAGCCTGACCGGCGAGAGTACGTCAACATGCT 2013
Db 55978 CGACCGGCGCGCTGCTGCGGTGCGCTGCGCGCGCGCGCGCGCGCGGATGGCT 56037
Qy 2014 CGACTGTCTGACGAGGAGCAAGGTCAAGAACTTCTGCGGATGGAGAACTGATCTT 2073
Db 56038 GCGGTGTCTCCAGATCCACCACTGCTCGAGGACCAACGCGCTCGACCGCGATGCTCG 56097
Qy 2074 CGACAGCGCGGACCGCGCGGAGACTTCCGCGATTTCATCAAGGATTTCTACAGG 2133
Db 56098 CGAGATCCAGGCGCTTCTCGCGCGCGCGCGCGCGGCGAGCTCGCGCGCC---CGAGCGGT 56154
Qy 2134 CAACGCTTTCATCAACGCGCGGTCTGATCGCGGATCAGGAGTCACTGCGCAACAT 2193
Db 56155 CGCGGCTACGTTCGCGCGCGCGCGGTCCGCGCGCGCGCGCGCGCGCGCGGCTACTT 56214
Qy 2194 CCGCTGCCCGGTCTGAACATCTAACCGATGAGGACCACTTGTGTCGCCCGGATGCTCTC 2253
Db 56215 CTCGCGGTGCTCGGTGAGCTCACCGAGAGCACCGCGCGGTGACCGAGCGCG 56274
Qy 2254 CAAGCGCTCGG---GGACTGACTCCAGCGAGGACTACAGGAGCTCGCTTCCCGG 2310
Db 56275 GGACGCGCGCGCGACCGGAAAGGCCCATCGCGAGGTGACCGCGCGCTGCGCGCGGT 56334

Qy 2311 CGGCGACATCGCATCTACGTACGCGCAAGCGCGAGGAGTCAACCCCGGCGATCGG 2370
Db 56335 GCGGCGCACGCGAGCGAGCTGGCGTGAGCCGCGACCGCTGTTCATCTCGCTGCGTGGC 56394
Qy 2371 CCGTGGCTGAACAAACGCGGCTGAGCGGCTGACACCGCTCGACGCGCGCGCGG 2430
Db 56395 CCGGCTGTGCGC--ACGTTGCGCGCGCGACGACGCTCTTCGGCACCGTCTGCTG 56452
Qy 2431 CCGGCATCAAGGCGCGCGCGCCATGAGCATCCCGCGCGCTGGCGCGCGCC 2490
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Qy 2491 CCGACCTTTCGCGCGCACCCGCTACGCGCGCGGTGGCGTACAATGACGCTTTCG 2550
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Qy 2551 GAGCGAGCGCGCTGCAACGAGGCTGATGGGCGCGCACCACTGCTGGCGCG 2610
Db 56569 CGCCAGCTGCGGCTGATCGGTCAAGCAGCAGCGCGCTGAGCTGGCACAGGCGCG 56628
Qy 2611 GTACGACGCTGCGCGGAGCTACGACGCGCACCGCGCGCTTTCGACATGCGCGCGCT 2670
Db 56629 GAGCGGTGCGCGCGGAGCGCGCTTTCACCTCGATCTCACTACCGCGCGGCG 56688
Qy 2671 GCTGAGGACATCTTTCGCGCGCTGCGCGCTGCGGCACTCTTCGACCTCGGCTGCG 2730
Db 56689 GCGCGCGCGCGACACCGCGCGAGGAGATCGAGGCTCGAGCTGCTTCCACCGA 56748
Qy 2731 CGCGGCGCGCTGCGCGCGCTTCTCGACCGCGGTGGCGGTGACCGGCGTGA 2790
Db 56749 GGAACGACGACAACTACCGGTGCGCGCTCGCTCGACGACGCTTTCGGCT 56808
Qy 2791 CTTCTGCGCGCGCTGCTCGCGCGCGCTTACGCTCCCGAGATGGAGCGGATC 2848
Db 56809 CACGCTGACGCGCGCGCGCGCGCGCGCGCGCGCTGCGCGGCTGCTGCAAC 56866

RESULT 5

US-09-820-721A-2

; Sequence 2, Application US/09820721A

; Patent No. US20020098565A1

; GENERAL INFORMATION:

; APPLICANT: Canon INC.

; TITLE OF INVENTION: Polyhydroxyalkanoate synthase and gene encoding the same

; FILE REFERENCE: 4051022

; CURRENT APPLICATION NUMBER: US/09/820,721A

; CURRENT FILING DATE: 2001-03-30

; NUMBER OF SEQ ID NOS: 10

; SEQ ID NO 2

; LENGTH: 1680

; TYPE: DNA

; ORGANISM: Pseudomonas putida P91

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (1)...(1680)

; OTHER INFORMATION: Polyhydroxyalkanoate synthase encoding sequence

US-09-820-721A-2

Query March 3.0%; Score 86.2; DB 10; Length 1680;

Best Local Similarity 46.0%; Pred. No. 3.2e-07;

Matches 449; Conservative 0; Mismatches 513; Indels 15; Gaps 4;

Qy 1356 AGCTGACCGAGGATGCTGGAGTACAGCGCAAGCTCGGCGAGGATGCAAGAACCTTGC 1415

Db 482 ACCTGGCCAAAGACATGTTCCAAACGGGCGATGCCAGCCAGGTCAACATGGAGCTT 541

Qy 1416 TCAAGCGCGACAGATCGACACAGGCGTCAACCGGCGAGGAGTCTCCACCGCGAGGACA 1475

Db 542 TCGAGGTGGCAAGA---ACCTGGCCACACCGAGGCGCGTGTATTTCGCAACGAGC 598

Qy 1476 AGTGGTCTCTACCGCTACCGGCGCGCGCGAGGTGGCGACCCAGAGATCCCGCTGTC 1535

Db 599 TGCTGGAGCTGATCAGTACCGCCCGATCACCGAGCGGTGCACGAAAGCCGCTGCTGG 658
Qy 1536 TGATCGTTACGCCCTCTGTCATATCGCCCTCATATACCGACATCCAGGAGGATCGCTCGA 1595
Db 659 TGGTACCGCCGAGATCAACAGTTCTAGCTTTCGACCTCAGCCCGGAAAGAGCCTGG 718
Qy 1596 CGATCAAGGGCTGCTCGCCACCGGTGAGGAGTCTATCTGATCAGTGGGCTACCCGG 1655
Db 719 CCGCTTCTGCTCGCTCCAGCGGTGACACCTTCATCGTGA--GCTGGCGCAACCCCA 775
Qy 1656 ATCAGCGGACCGCGGCTGACCTTCGATGATACATCAACCGGCTACATCGACCGCTGG 1715
Db 776 ACAAGTCCAGCGCAGTGGGCTGTGACCTCATCATGATCGCTCAAGGA--GGCGG 832
Qy 1716 TCGACTACTGCGGAGACCCACCGCGTGCACAGGTCAACCTGTCTCGGATCTCGCAGG 1775
Db 833 TCGAGTGTGTGTCGAATACCGGAGCAAGGACCTGAACATGCTCGGTGCTGCTCGG 892
Qy 1776 GCGGGCTTACGCTCTGCTACACGGCCCTGCACCTCCGAGAGGTCAAAACCTCTGCA 1835
Db 893 GCGGATCACCTGCACCGGCTGTGGGCCACTACCGGCACTTGGGCGAGAAAGGTCA 952
Qy 1836 CCATGCTCAGCGCGCTGCACTTCCAGACCCCGGGCAACTGCTCTCGGCTGGGTCCAGA 1895
Db 953 ATGCCCTGACCTGTGTGTGAGCTGTCTGACACCACTCTGACACCGAGTGGCGCTGT 1012
Qy 1896 AGTGCAGCTGCAGCTGCGCTGCGACCATGCGGCAACATCCCGGGCGAACTGCTCAACT 1955
Db 1013 TCGTCGAGGAGCAGACCTGAGTTCGGCAAGCGCAATTCCTACCGCGGTGTGCTCG 1072
Qy 1956 GGACCTTCTGCTGCTCAAGCCCTTACGCTGACCGGCGGAGAGTACGTCAACATGGTGG 2015
Db 1073 AAGGCGGCAATGCGCAAGGTGTTCGCTGGAATGCGGCCCAACGACCTGATCTGGAAT 1132
Qy 2016 ACTGCTCAGCAGCAGGACAGGTCAAGACTTCTCGGGATGGAGA-----AGTGA 2069
Db 1133 ACTGGTCAACAACTACTGCTGCGCAAGAGCCCGGTGTTCGACATCTGTTCTGGA 1192
Qy 2070 TCTTCAGACGCGGACGAGCGCGGAGACCTTCGCGCAGTTTATCAAGGACTTCTACC 2129
Db 1193 ACAAGCATACGCGCTGCGCCCGCTTCCAGCGGACCTGATCGAAATGTTCAAGA 1252
Qy 2130 AGCGAACGGCTTATCAACCGCGCGTCTGATCGGCGATCAGAGGTGCACTGCGGA 2189
Db 1253 ACAACCGCTGGTGGTCCGCTGCACTTGGAGTGTGGCGCACCGCGATCGACCTGAGCC 1312
Qy 2190 ACATCGCTGCGCGTCTGAACTCTACCGGATCGAGCAGCAGCTGTGCGCGCGATG 2249
Db 1313 AGGTACCACTGACATCTTACGCTGGCGGCAACCAAGATCACAATCACTCAAGT 1372
Qy 2250 CTTCAAGGCTTCCGCGGACTGACCTCCAGCGAGGACTACAGGAGCTCGCTTCCCGG 2309
Db 1373 CTGTCTAAGTCGCGCAGCTGTTTCGCGGCAAGTTCGAGTTCCTGCTGTCTCAACAGG 1432
Qy 2310 GCGGCAATCGGCATC 2326
Db 1433 GGCATATCCAGAGCATC 1449

RESULT 6

US-09-825-288A-1

; Sequence 1, Application US/09825288A
; Publication No. US20020192822A1
; GENERAL INFORMATION:
; APPLICANT: LEOPARDI, ROSARIO
; APPLICANT: ROIZMAN, BERNARD
; FILE OF INVENTION: HERPES SIMPLEX VIRUS ICP4 IS AN INHIBITOR OF APOPTOSIS
; TITLE REFERENCE: ARCD:317USC1
; CURRENT APPLICATION NUMBER: US/09/825,288A
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/259,821
; PRIOR FILING DATE: 1999-03-01
; PRIOR APPLICATION NUMBER: 08/690,473

; PRIOR FILING DATE: 1996-07-26
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4257
; TYPE: DNA
; ORGANISM: HERPES VIRUS, TYPE 1
; US-09-825-288A-1

Query Match 3.0%; Score 85; DB 9; Length 4257;

Best Local Similarity 41.9%; Pred. No. 5.7e-07;

Matches 712; Conservative 0; Mismatches 975; Indels 12; Gaps 3;

Qy 1132 CGGCTTTGGCGGCGGCGCCCGAGCCCGCGCCCAAGGCTCTCGCCCCAGCCCAAGCAGCCCGG 1191
Db 1293 CAGCGGGAGCGTGGCGCGCGCGCCCGCCCGCCCGCGGGCGGTCTGTACGGCGG 1352
Qy 1192 CCGCGCGCGGACGCGCCCGCGGCGAGCGGCGCCCAAGCGAGCAGCAGCAGCCCGG 1251
Db 1353 CTTGGGCGACAGCCCGCCCGGGCTCTGGGGGCGCCCGAGGCGGAGGCGGCGAGCGG 1412
Qy 1252 GCAAGACCACCAAGCCCAACCGCCAGTGTATGCGCGCCCGCTCCATCGCCACAGG 1311
Db 1413 GTTCGAGGCTCTGGGCGCCCGCGCGCTGTGGGGCGCCGAGCTGGGGGAGCGCCGCGCA 1472
Qy 1312 AGAGAGTCCGCTGTCCCATTTCCGATCGACATCCGCGCCCGCAAGCTGACCGAGAGAT 1371
Db 1473 GCAGTACGCTGATACCGCGCTGCTGTACACCCCGGAGCGGAGGCAATGGGTGGCT 1532
Qy 1372 GCTGGAGTACAGCGCAGCTCGGCGAGGATATGCAACCTGCTCAAGGCGCAGCAGAT 1431
Db 1533 CCAGAACCCGCGGTGTGTCGCGGGAGCTGGCGCTGACCGAGGCTGCTTCCGATCTC 1592
Qy 1432 CGACACAGCGCTCACCCCAAGGAGCTGTCCACCGGAGGACAGCTGGTCTCTACCG 1491
Db 1593 GGGCGCGCGGCAACAGCAGCTCTTATCACCGGAGGTGGCGCGGCGCTGCCCA 1652
Qy 1492 CTACCGGCGCGCGGCGAGGTGGCGACCCAGACGATCCCGCTGCTGTATCGTCTACGCCCT 1551
Db 1653 CTTGGGCTACGCCATGGCGCGCGCGCTTTCGGCTGGGGCTTGGCGCACCGCGCGCGC 1712
Qy 1552 GTCATACCGGCTTACATGACGACATCCAGGAGATCGCTCGAGGATCAAGGGGCTGCT 1611
Db 1713 CTTGGGCTAGAGCGCGCGATACGACCGCGCGAGAGGCTTCTGCTGACAGCGCTGCG 1772
Qy 1612 CGCACCGGTGAGGACGCTTATCTGATCGACTGGGGCTACCGGATCAGGGCGACCGGCG 1671
Db 1773 CCGGCTTACGGGCTTGTGGCGCGGAGACGCGGGCTGACGGGGCGCGGGGAG 1832
Qy 1672 GCTGACCTTCGATGACTACATCAACGGCTTACATCGACCGCTGCTGCTGACTACCTCGCGGA 1731
Db 1833 CCGCGCGCGCGCGAGATGACGAGGGGTTCGCGCGCTGCGCGCGCGCGCACCGGGCGA 1892
Qy 1732 GACCAAGGCTGACAGGTCAGCTGCTGGGATCTGCGAGGCGGGGCTTTCAGGCT 1791
Db 1893 GCGCGGTGCTGCGCGGCTACGCGCGCGGGATCTCTCGCGCGCTG---GGCGGT 1949
Qy 1792 CTGCTACACGCGCTTGCATCCGAGAGGTCAAAACCTGCTCACCATGCTCACCGCT 1851
Db 1950 GTCCGCGCGCGCTTCCCGGGGGGCGACGACCCCGACCGCGCGCGCGCGCA 2009
Qy 1852 CGACTTTCAGACCCCGGGCAACCTGCTCTCGGCTTGGGTCCAGAACGTCGAGCTCGACCT 1911
Db 2010 CGCGAGCAGCAGCGCGGCGCGCGCCCGCGCGCGCGCGCTGCGCTGAGTGGCTGCG 2069
Qy 1912 GGCGTTCGACACCTAGGCAACATCCCGGGGAACTGCTCAACTGGAACCTTCTGCTGCT 1971
Db 2070 GCGCTGCGCGGGATCTCTGAGGGGCTTTCGAGGAGGCTTTCGAGCGGACCTTGGCGCGCT 2129
Qy 1972 CAAGCCCTTACGCTGACCGGCGAGAGTACGTCAACATGCTGCGACCTGCTCGAGCAGCA 2031
Db 2130 CCGGGGCTGCTCGCGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2189

Qy 2032 GGACAAAGTCAAGAACTTCCTGCGGATGGAGAAGTGGATCTTCGACAGCCCGGACCAAGC 2091
Db 2190 CGCTTCCCGCGCGCGCGACCG 2249
Qy 2092 CGCGAGACCTTCGCCAGTTCATCAAGACTTTCACAGGCAAGCGCTTCATCAACGG 2151
Db 2250 GCGTTCGTGCGGACGCGCTGCTCATGCGCTGCGCGGAGCACTGCGCGTGGCCGG 2309
Qy 2152 CGCGCTCTGATCGCGGATCAGGAGTCCAGCTGCGGCAACATCCGCTGCGCGGCTCTGAA 2211
Db 2310 CGGACGAGCG 2369
Qy 2212 CATCTACCGGATGACAGACACTCGTGGTCCGCGGATGCTTCAAGGCGCTTCGCGGACT 2271
Db 2370 CCGCGCTGCGCGGACCGCGCTGCGAGTCCGCGGCGCGCGCGCGCGCGCGCGCGCGCG 2429
Qy 2272 GACCTCCAGGAGGACTACAGGAGTCCGCTTCCCGCGGGGACATCGGATCTAGT 2331
Db 2430 GCTGTTGACAAACAGAGCTGCGCGCGCTGCTGCGCGCGCGCGCGCGCGCGCGCGCG 2489
Qy 2332 CAGCGCAAGCGCGAGGAGTCAACCGCGGATCGCGCTGGCTGAACGAACGCGG 2391
Db 2490 CGCGACGCGTGGCGCGCGCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2549
Qy 2392 CTGAGCCGGGTGACCCACCGCTCGACGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2451
Db 2550 GAGTCCCG 2609
Qy 2452 CGGCGCCATGAGCCATCGGCGCGCTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2511
Db 2610 GAGCGCGCGACGCGCGCGCGCTCGGACGCGCGCGCGCGCGCGCGCGCGCGCGCG 2669
Qy 2512 GCATCGCCCGCGCGCTGGCGTACAAATGACGCTCTTCGAGCGAGCGCGCGCGCGCG 2571
Db 2670 CT-----CAAGCG 2724
Qy 2572 CGGAGGTGCAATGGCG 2631
Db 2725 GCGCGCGCGAGCG 2780
Qy 2632 CTAGACG 2691
Db 2781 CCG 2840
Qy 2692 CTGCGCGCGCTCGCGACCGCTCTCGACTCGCGCTGCGCGCGCGCGCGCGCGCGCG 2751
Db 2841 CGCGCGCGCGCGCTGGAGGCTACTGCTCCCGCGCGCGCGCGCGCGCGCGCGCGCG 2900
Qy 2752 GCGCTTCGACCGCGCTGGCGGTTGACCGGGGTGACCTTCGCGCGCGCGCGCGCGCG 2811
Db 2901 CCGCGTGTTCGCGTCCGCTGGCGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2960
Qy 2812 CTGCGCGCGCGCTAGTCT 2830
Db 2961 GATCGCGCGCGCGTGGCG 2979

RESULT 7

US-09-860-846-7
; Sequence 7, Application US/09860846
; Patent No. US2002016742A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Xue, Y.
; APPLICANT: Zhao, L.
; TITLE OF INVENTION: DNA encoding methymycin and pikromycin
; FILE REFERENCE: 600.438US1
; CURRENT APPLICATION NUMBER: US/09/860.846
; CURRENT FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 09/105,537
; PRIOR FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: Fast-SEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 1248
; TYPE: DNA
; ORGANISM: Streptomyces venezuelae
US-09-860-846-7

Query Match 3.0%; Score 84.2; DB 9; Length 1248;
Best Local Similarity 45.2%; Pred. No. 7.2e-07;
Matches 489; Conservative 0; Mismatches 568; Indels 24; Gaps 4;

Qy 1351 CGACAAAGTACGAGGAGATGCTGGAGTACAGCGCAAGCTCGCGAGGGTATGCAGAA 1410
Db 150 CGGCCGCTCGTCCGCGAGTTCGAGGAGCGGTCCGCGGGTCCGCGGGTCCGCGATGC 209
Qy 1411 CTTGCTCAAGCCGACAGATCGACACAGGGGTCAACCCCAAGGACGTCGTCACCGGA 1470
Db 210 CGTGGCCACTTCGAACCCGCGCGCGGTCCAGTCTTCGCGACGCCGCGGCTTAC 269
Qy 1471 GGACAAAGTGTCTCTTACCGCTACCGCGCGCGCGAGGTGGCGACCCAGACGATCCC 1530
Db 270 CGGCGAAGTATCATGCGCTCGATGACGTTCCGCCCAACCCGCGACGCACTCGCTGGAT 329
Qy 1531 GCTGCTGATGCTCTACGCCCTTCGTAATCGGCGCTTACATGACCGACATCCAGGAGGATCG 1590
Db 330 CGGCTTCACCCCGGTCTTCGCGGACATCGACCCGAGACACCGCAACCTCGACCCGACCA 389
Qy 1591 CTCGACGATCAAGGCGCTGCTCGCCACCGGTTCAGACGCTCTATCTGATCGATGGGGCTA 1650
Db 390 GGTGGCGCGCGGTCAACCCCGACCTCGGCGCTCGTGGCGTCCACCTTGGGGCGG 449
Qy 1651 CCGCGATCAGGCGCGCGCGCTGACCTCGATGACTACATCAACGCGCTACATCGACCG 1710
Db 450 CCGCTGCGCGCGCGCGCGCTGCGGAGGTCCGCGACGACGCGCTGCTACTT 509
Qy 1711 CTGCGTGAATCTACCTGCGCGAGACCCAGCGGTTCGACAGGTCAACCTGCTCGGATCTG 1770
Db 510 CGAGCGCGCGCAC-----GCCCTCGGCTGCGGTTCGACGCGCGCGCGCGCGCGGAG 560
Qy 1771 CCAGGGGCGCGCTTCAGCCTCTGTACACGCGCTGCTGACCTCCGAGAAGGTCAAAAACCT 1830
Db 561 CCGCGCGCGCGCGCGCGCTTCAGCTTCACGCCAACGAGCGCTCAACGCTTCGAGGG 620
Qy 1831 CGTCACCATGTCTACCGCGCTCGACTTCAGACCCCGCGGCAACCTGCTCTCGGCTGGGT 1890
Db 621 CGGCGCGCTTCACCGGACGACCGGCTCGCGCGCGGATCC-----GCGCCT 671
Qy 1891 CGAGAACGTGACGTGACCTGCGCGTTCGACACCATGGGCAACATCCCGGGGCAACTGCT 1950
Db 672 CCACAACTTCGCGCTTCGACCTGCGCGGCGAGCGCGCGCGCGGACCAACGCGCAAGAT 731
Qy 1951 CAACCTGGACCTTCCTGCTCGCTCAAGCCTTCAGCTGACCGCGCGAGAGTACGTCACAT 2010
Db 732 GAGCGAGCGCGCGCGCTATGGGCTCACCTCCCTCGACGCGTTTCCCGAGGTTCATCGA 791
Qy 2011 GGTGACCTGCTCGACGACGAGGACAAGGTCAAGAACTTCCTGCGGATGGAGAGTGGAT 2070
Db 792 CCGNAACCGGCGCAACCAACGCGGCTTACCGGAGCACCTTCGCGGACCTCCCGCGGCTCT 851
Qy 2071 CTTGACAGCGCGGACCGCGCGCGGAGACCTTCGCGCAGT---TCATCAAGGACTTCTA 2127
Db 852 CGTCCCGGACCAACCGCGCGCTCAACCGGCTCAACCAACCCAGTACGTGATCGTCGATCGA 911
Qy 2128 CCAGGCAACCGCTTCATCAACGCGCGCTCTGATCGCGATCAGGAGGTGCA---CCT 2184
Db 912 CGAGGCCACCGGATCCACCGGCTCTGATGAGGCTCTGAAGGCCGAGGCGT 971
Qy 2185 GCGCAACATCCGCTGCCCGGTCTCGAATCATACCCGATGAGGAGCACCTGCTGTCGCGCC 2244
Db 972 GCACACCGCGCTTACTTCTCGCGGGTTCACAGAGTGGAGCGGTACCCGCGGCGAGCC 1031
Qy 2245 GGATGCTTCAAGGCGCTTCGCGGAGTCACTCCAGCGAGGACTACAGCGGAGCTCGCCTT 2304

Db 1032 GCACGCCCGCTGCCGACACCGAAGCGCTCGCCGCGCGTGTCTCTCCCTGCCACCGG 1091
Qy 2305 CCCCGCGGGACATCGCATCTACGTGAGCGGCAAGCGGAGAGTACACCCCGC 2364
Db 1092 CACGCCATCGCGGACGACGACATCCGCGGGTCCGACCTGCTGCTGCGCGAC 1151
Qy 2365 GATCGCGCGCTGGCTGAACGACGCGGCTGAGCGGGTGCACCCACCGCTCGACGGGG 2424
Db 1152 CCGCGCGCGGACGATGACCGCGCGCACCGGACACGCGCCCGCGCTGCGCGGCC 1211
Qy 2425 C 2425
Db 1212 C 1212

RESULT 8
US-09-861-289-7
; Sequence 7, Application US/09861289
; Patent No. US20020110897A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Xue, Y.
; APPLICANT: Zhao, L.
; TITLE OF INVENTION: DNA encoding methymycin and pikromycin
; FILE REFERENCE: 600.438US1
; CURRENT APPLICATION NUMBER: US/09/861,289
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 09/105,537
; PRIOR FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 1248
; TYPE: DNA
; ORGANISM: Streptomyces venezuelae
US-09-861-289-7

Query Match 3.0%; Score 84.2; DB 10; Length 1248;
Best Local Similarity 45.2%; Pred. No. 7.2e-07;
Matches 489; Conservative 0; Mismatches 568; Indels 24; Gaps 4;

Qy 1351 CGACAGCTGACGAGGAGATGCTGGATACAGCGCGAAGCTCGCGGAGGGTATCGAGAA 1410
Db 150 CGGCCCGCTGCTCCGCGAGTTTCAGAGAGCGGCTCGCCGGGCTCGCGGGGTCCGCGATGC 209
Qy 1411 CCTGCTCAGGCGGACAGATCGACACAGGGGTACCCCGGAGGAGTCTGCCCGGCA 1470
Db 210 GTGGCCACCTGCAACGCCACGGCGGGGTCCAGTCTCTCGCGCACCGCGCGGCTCAC 269
Qy 1471 GGACAGCTGTGCTCTACCGCTACCGCGCGCGCGGAGGTGGCGACCCAGACGATCCC 1530
Db 270 CGGCGAAGTATGATGCGCTCGATGACGTTCCGCCACCCCGCAGCACTGCGGTGAT 329
Qy 1531 GCTGCTGATGCTTACGGCCTCGTCAATCGGCGCTTACATGACCGACATCCAGAGGATCG 1590
Db 330 CGGCTTACCCCGGCTTTCGCGGACATGACCCCGGACACCGGCAACCTCGACCCGGA 389
Qy 1591 CTCGACGATCAAGGCGCTGCTCGCCACCGGTGAGGAGCTTATCTGATGAGTCTGGGGCTA 1650
Db 390 GGTGCGCGCGGCTACACCCCGCACTCGCGCGCTGCGCGCTGCGCGCTGCGCGCG 449
Qy 1651 CCCGATCAGGCGGACCGGCGCTGACCTCGATGACTACATCAACGGGTATACATCGACCG 1710
Db 450 CCCCTGCGCGCGGACGAGTTCGCGAAGGTCCGCCAGGACGCGCTCGCGCTGCTACTT 509
Qy 1711 CTGCTGCACTTACCTGCGGAGACCAAGGCGTGCACAGGTCAACCTGCTCGGGATCTG 1770
Db 510 CGACGCGCGCAC-----GCCCTGGGTGCGGGTTCGACGGCGCGCGCGCGCGCGAG 560
Qy 1771 CCAGGCGGGGCTTCAGCTCTGTCTACACGGCTTGCACCTCGGAGAGGTCAAAAACCT 1830
Db 561 CTTGCGGACGCGCGAGGTCTTCAGCTTCCACGCCCAAGGCGGTCAACGCGCTTCGAGGG 620

Qy 1831 CGTCACCATGTCTACGCCGCTCGACTTCCAGACCCCGGGCAACCTGCTCTCGGCGCTGGGT 1890
Db 621 CGGCGCGCTGCTCCCGACGACGCGGACCTCGCGCGCGGATCC-----GCGCCCT 671
Qy 1891 CCAGAACGTTCGACGCTCGACCTGGCGCTGACACCATGGGCAACATCCCGGGCGAAGTCT 1950
Db 672 CCACAACTTCGCGCTTCGACCTGCGCGGCGGAGCGCCCGCGGGGACAAACGCCAAGAT 731
Qy 1951 CAATGGACCTTCTCTGCTCAAGCCCTTCAGCGCTGACCGCGCCAGAAAGTACGTCAACAT 2010
Db 732 GAGCGAGCGCGCGCGCATGGGCTTACCTCCCTCGACGGTTTCCCGAGGTTCATCGA 791
Qy 2011 GGTGACCTGCTCGACGAGGCAAGGTCAAGAACTTCTCTCGGATGGAGAGTGGAT 2070
Db 792 CCGAAACCGGCGCAACACGCGGCTTACCGGAGCACCTCGCGGACCTCCCGCGGCTCT 851
Qy 2071 CTTGACAGCGCGGACGAGCGCGGAGACCTTCGCGCAGT---TCATCAAGGACTTCTA 2127
Db 852 CGTCCGCGACACGACGCGCGGCTTCAACACCCAGTACGTGATCGTCGAGATCGA 911
Qy 2128 CCAGCGCAACGGCTTCAACACGCGGCTCTGATCGGCGATCAGGAGGTCTGA---CCT 2184
Db 912 CGAGCGCACACCGGCTTCAACCGGCTTCTGATGAGTCTCTGAAGCGCGAAGGCT 971
Qy 2185 GCGCAACATCCGCTCGCGGCTCTGAACATCTACCCGATGAGGACCACTGCTGTCGCGC 2244
Db 972 GCACACCGCGCTTCTTCGCGGGTTCGACGAGTGGAGCGGTACCGCGGCGAGCC 1031
Qy 2245 GGATGCTTCAAGCGCTTCGCGGAGTACTCCAGCGAGGACTACAGGAGTCTGCGCTT 2304
Db 1032 GCAGCGCGCTGCGCGCACACCGAAGCGCTTCGCGCGCGCTGCTGCTGCTGCGCGCG 1091
Qy 2305 CCGCGCGCGGACATCGGCTACTAGTCTCAGCGGCAAGCGGAGGAGTCAACCCCGCGC 2364
Db 1092 CACGCCATCGCGGACGAGACATCCCGCGGTCCGCGCTCTGCTGCTCTGCGCGAC 1151
Qy 2365 GATCGCGCTGGCTGAACGAGCGGCTGAGCGGGTTCGACCCGCTGACCCCGCTCGACGGGG 2424
Db 1152 CCGCGCGCGGACGATGACCGCGCGCACCGGACACCGCGCGCGCTGCTGCTGCTGCGCGCG 1211
Qy 2425 C 2425
Db 1212 C 1212

RESULT 9
US-09-860-846-1
; Sequence 1, Application US/09860846
; Patent No. US20020164742A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Xue, Y.
; APPLICANT: Zhao, L.
; TITLE OF INVENTION: DNA encoding methymycin and pikromycin
; FILE REFERENCE: 600.438US1
; CURRENT APPLICATION NUMBER: US/09/860,846
; CURRENT FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 09/105,537
; PRIOR FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 15872
; TYPE: DNA
; ORGANISM: Streptomyces venezuelae
US-09-860-846-1

Query Match 2.9%; Score 84; DB 9; Length 15872;
Best Local Similarity 42.6%; Pred. No. 9.5e-07;
Matches 1034; Conservative 0; Mismatches 1355; Indels 37; Gaps 10;

Qy	360	CGCGACTTTCATGAGAAAGCTCGCCGAGCAGGCGCAAGGCGTTCTTTCGGCCTCACCGACTAC	419
Db	3743	CGCGGCCTCGCCGCGCCAGCGCGCTCCAAAGGCGTCTTCGACTCGCGCCGAGCGCACCTCC	3802
Qy	420	TTCAACGAAGSGCCTCGCGCGCAGTAGCGGTACGCAAGGCTGGGACACCCCTCTCGAAGACC	479
Db	3803	TGGGCGAGGGCGTCCGCTCTCTGTCTGACGGGCTCTCGGACCGCCAGCGCAACGGC	3862
Qy	480	ATCGACGACATGCAAAAGGCTTTCGCGACAGCGCCGCGATCGAAGGCGAGACGACCTTCGCG	539
Db	3863	CACCCGCTGCTCGCCGTGATCGGGGCGAGCGGTTCAACACGAGACGGCGCTCCACGGG	3922
Qy	540	CGCTGTATGCGCTTCTGGGAGATGCGCGTCTGACAACTGCGCAGCGCACATGTCTCTCGCTG	599
Db	3923	CTACCGCGCCCAACGCGCCGCTCCACGACAGCGCTCATCCACAGGCGCTGGCGGACGCC	3982
Qy	600	TCCCGGTGCGCGGACACTGCTGCGCAACATGCGCGACGACCAAGTACAGGACAGGCTC	659
Db	3983	GGGCTACCCCGGCGGACGTCGACGCGCTGCGAGGGCGCACGTTACGGGTACCCCGGCTCGC	4042
Qy	660	GACCGCATCTCTTCGCGACCCGCGGCTTCGGCTACTACGCGCAGGACGAGCGCCGCTACGAG	719
Db	4043	GACCCCATCGAGCGCGAGGCGATCTCGGCACCTACGCGCGGACCGGGGCGAGGGCGCT	4102
Qy	720	GATCTGATTCGCGCGCTCGCTGAGTACCAAGTTCGCGCCCTGAACAAATACACGGCTTCTTC	779
Db	4103	CCGCTCCAGCTCGGCTCGCTGAAGTTCGAACATCGCGCACGCGCAGGCGCGCGGGCGTG	4162
Qy	780	GGCCAGCTCGGTCAAGTCCCTCGAGCGGATGCGCGCTTCCTTCGACAGGACAGCGCGAG	839
Db	4163	GGCGGGCTCATCAAGATGCTCTCGGATGCGGCCACGCGCTCTCTCCGACGACGCTCCAC	4222
Qy	840	AAGCGCTCGCCCATCGATCGGCGCGCACCTCTTACGACGCTCGGTCGGCTGCTGCGAA	899
Db	4223	GTGGACCGGCGCACACCCGCGTCTGACTGGGAGGCGGGGGGCTCGAGCTCTCACCGAG	4282
Qy	900	GAGGTCTATCCGAGGAGTGCTAGCTCCGCCGACTACGCGCACATCCACGCGCGCTCGTC	959
Db	4283	GAGCGGAGTGGCGGAGACGGGCGCGCGCGCGCGCGCGCGGCGATCTCTCTTCGGCATC	4342
Qy	960	AACGCCAGATGGCGCTTCAAGCAGCGCATGTGACACATGTGTGACGAGTCTCTCGGGCGG	1019
Db	4343	AGCGGCACCAACGCCCCACATCTGTGTGTAACAGGCGCCCGGAAGCGC--GGGAGGCGCGGT	4401
Qy	1020	ATGCGCTGCGGACCCGCGCAGGCTGCGCAGCTCCAGGATCGGCTCCAGAGGTTCGCGC	1079
Db	4402	CACCAACACCGCCCGAGACAGGGAAGCGGGGAAGCGGGGACACCAACCGCCACAC	4461
Qy	1080	GGCGAGGGCAAGCGCCAGCGCCAAAGATCGAGACGCTGAAGCGCG--AGGTTCGGCGCTT	1138
Db	4462	GAGCGCGGCGGCTCGGCGTCCCGAAACCGGTACGCGCCCCGTCGTGTGTCTCCGCGCG	4521
Qy	1139	GGCGGGGCGGCGCCAGCGCGCGCCCGAGCGCTTCGCGCCAGCGCCAGCACCCGCGCGCGCC	1198
Db	4522	GGACGCGCGCGCGCTGCG--GCGGCCAGGCGGTTCGGCTTCGCGACCTTCTCGAGCGCGCA	4579
Qy	1199	GGCGAGGCGGCCGCGCGGAGCGCGGCGCCCAAGCGCAGCACCAACCGCGCGCAAGAC	1258
Db	4580	CGGAGCTCAAGTTCGCGGACCTCGG--ACGCTCGCTGGCGCCCGTACCGCCTTCGAG	4636
Qy	1259	CACCAAGCCCAACCGCGCGGCTGATGTGCGCGCGCCGCTCCATCGCCACAGGAGAGT	1318
Db	4637	CACAAGGCGCGCTTCAACACCGCCACAGGACGAGCTGCTCGCGGGCTCGACGCCCTC	4696
Qy	1319	GCGGTGTCCCATTTCCGATTCGACATTCGCGGCCGACAGCTGACCGGAGAGATGCTGGAG	1378
Db	4697	GGCGCGGGGAGCAAGCACCGGCGCTTGTCTAACCGCGCAACCGGCGAGGCGCGACG	4756
Qy	1379	TACAGCGCAAGCTTCGGCGAGGATGACAGAACCTGCTTCAGGCGCGACCATCGACACA	1438
Db	4757	GCTTCTCTGTTTACCGGCGAGGAGCGCAGCGCTGCGCATGGGCGAGGAATCTCGCGGCC	4816
Qy	1439	GGGCTCACCCCCCAAGGACGTCTGCCACCGCAGGAGCAAGCTGGTCTCTACCGCTACCGG	1498

Db	4817	GGCAACCCCGTGTTCGCGCGCCGCTTCGACACCGGTGACGGGCGCTTCGACCGTCACTTC	4876
Qy	1499	GCCCGGCGCAGGTGGCAGCACAGACGATCCGCGTGTGATCGTCTAGCGCCCTCGTCAAT	1558
Db	4877	GACCGCGCGTTCGGGAGATGTCGCCCGCGGGAGAGCTGGACTCACCGGTACACC	4936
Qy	1559	CGGCCCTATAGACCGACATCCAGGAGATCGTCTGACGATCAAGGGCGTGTCCGCCACC	1618
Db	4937	CAGCCGCGCCCTTCGCGCTTCAGGTGG-----CGCTGTTCCGCGCTCTCTGAAACACCAC	4990
Qy	1619	GGTCAGGACGTCTATCTGATCGACTGGGGCTTACCCGGATCAGGCGCGACCGGGCGGTGACC	1678
Db	4991	GGCTTCGTCCCGACCTGCTCACCGGCACCTCGTTCGGCGAGATCGCGCGCGCAGCGTC	5050
Qy	1679	CTCGATGACTACATCAACGGGTACATCAGCCGCTCGCTCGACTACTGCGCGAGACCCAC	1738
Db	5051	GCCGGTGTCCTTCCTCGACGACGCCGACGTCTGTC-ACCGCCGCGCGCGGTCTAT	5109
Qy	1739	GGGCTCGACCAAGTCAACCTGCTCGGGATCTGCCAGGGCGGGCGCTTCAGCCTCTGCTAC	1798
Db	5110	GCAGTGCGCCCGAGGGCGGCGCATGATCGCCGTGACGGCGGCGAGGCCGA-----5163	
Qy	1799	ACGGCCCTGCACTCGAGAAGGTCAAAAACCTGTCTACATGGTCAAGCGGTGCACTTC	1858
Db	5164	--GPTCTGAGTCCCTCAAGGGCTTACAGGGCAGGGTTCGCGCTCGCGCGCTCAACGGA	5221
Qy	1859	CAGACCCCGGGCAACTGCTCTCGGCCCTGGGTTCAGAACTGCGAGTTCGACCTGGCGCGTC	1918
Db	5222	CCACCGCGGTGTCGTCTCGCGACCGCGACCGCGGAGCGCGGAGGATCGCGCGGTATGG	5281
Qy	1919	GACACATGGGCAACATCCCGGGCGAACTGTCTCAACTGGACCTTCTGTGCTCAAGCC	1978
Db	5282	CGGGACCGGCGCGGCACCGCAGGCTGCGCGTCAGCACGCTTCCACTCCCGCAC	5341
Qy	1979	TTCAGCTGACCGGCGAGAGTACGTCAACATGTGTGACCTGCTCGACGACGAGACAAAG	2038
Db	5342	ATGGACGACGTCCTCGAGAGTTCTTCGGGTTCGCGAGGGCTTACCTTCGAGGAGCG	5401
Qy	2039	GTCAGAAGTCTCTCGCGATGGAGAGTGATCTTCGACAGCCCGGACCGAGCGCGCGAG	2098
Db	5402	CGGATCCCGTGTCTTCACGGTACCGCGGCGCTGTCACGTCGGGAGTCTCACTCG	5461
Qy	2099	ACCTTCCGCCAGTTTCATCAAGACTTCTACAGCGCAACGGCTTCATCAACGGCGCGTC	2158
Db	5462	CCCGGTACTGGTTCGACAGATCGGCGGCGCGTTCCTGGAACGCGTCCGCACC	5521
Qy	2159	CTGATCGCGATCAGGAGGTGACCTGCGCAACATCCGCTG---CCCGTCTCTGAACATC	2215
Db	5522	CTGGCGCCCGAGGACGCGACCGCTCTCTGTCGATGCGCCCGCGCGCTCTCAACGGA	5581
Qy	2216	TACCCGATGAGGACCACTGGTTCGGCGGATGCTTCAAGGCGCTTCGCGGACTGACC	2275
Db	5582	CTGCGGAGGAGTCTCTCGCGCCCGGACGAGACGCGCGGACGCGGAGCTCAAGTCT	5641
Qy	2276	TCCAGCGAGGACTACACGAGCTCGCTTCCCGCGGCGCATCGGATCTACGTCAGC	2335
Db	5642	GTCCCGCTGCTCGGCGGGGGCGCCGAGCCCGAGACCTTCGCGCGGTCTCGGACC	5701
Qy	2336	GGCAAGCGCAGGAAGAGTACCCCGCGATTCGCGCGGTGCTGTAACGAAACGCGCTGA	2395
Db	5702	GCCCATGTCCACGGCGCACCTTGACCGGGCGTGTCTTCCCGGACGGGCGCGCACG	5761
Qy	2396	GCCGGTTCAGCCACCCTC---GACGGCGCGCGCGCGCATCGAGGCGCGCGCC	2452
Db	5762	GACCTGCCCACTGACGCTTCGGCGCGAGCACTACTGGCTGACGCCGAGGCGCGTACG	5821
Qy	2453	GCGGCCATGAGCCATTCGCGCGCTGGCGCGCCCGCCCGACCTTCGCGCGCGACCCG	2512
Db	5822	GACGCCCGGCACTCGGCTTCGACCCGCGCGGACCCGCTCTGACGACACAGGTCTGAG	5881
Qy	2513	CATCGCCCGCGGCTGGCGTCAATGAGGTCT-----TCGCGAGGAGCGCCCG	2563

Db 5882 GTCCGCGGGCGACGGCGTCTCTGCTGACCGCGCGTCTCTCCCTGACCGACGACGACCCCTGG 5941
Qy 2564 ATCGTCAACGAGGTTGATGCGGCCGACACACACCTGCTGCGCCGCTGACGACCGCTG 2623
Db 5942 CTGGCCGACCAATGTCACGCGCGCTCTGTTGCGGCCACCGCTCTCTGAGGTC 6001
Qy 2624 GCCGAGACTAGACGCCACCGCGCCCTCTTCGACATGCGGCCGCTGCTGAGACATC 2683
Db 6002 GCCCTCGCGGGCGACACACTCGGGGCGGTCCGGGTGAGGAACTCACCTCAGAGCG 6061
Qy 2684 TTCCGCGCGCTCCCGCGCTCGCGACACCTCTCTGACCTCGGCTCGGGCGCGGAGCGG 2743
Db 6062 CGCTCGTCTCGCGAGCGGGCGCGCTCCGATCCAGTCCGCTGAGCGGCGACGCG 6121
Qy 2744 TCGCGCGCGCTCTCTGACCGCGG 2769
Db 6122 GAGTCGCGCGCGCGACCTTCGG 6147

RESULT 10

US-09-861-289-1

; Sequence 1, Application US/09861289

; Patent No. US20020110897A1

; GENERAL INFORMATION:

; APPLICANT: Sherman, D.H.

; APPLICANT: Liu, H.

; APPLICANT: Xue, Y.

; APPLICANT: Zhao, L.

; TITLE OF INVENTION: DNA encoding methymycin and pikromycin

; FILE REFERENCE: 600.438US1

; CURRENT APPLICATION NUMBER: US/09/861,289

; CURRENT FILING DATE: 2001-05-18

; PRIOR APPLICATION NUMBER: 09/105,537

; PRIOR FILING DATE: 1998-06-26

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 1

; LENGTH: 15872

; TYPE: DNA

; ORGANISM: Streptomyces venezuelae

US-09-861-289-1

Query Match 2.9%; Score 84; DB 10; Length 15872;
Best Local Similarity 42.6%; Pred. No. 9.5e-07;
Matches 1034; Conservative 0; Mismatches 1355; Indels 37; Gaps 10;

Qy 360 CGCGACTTCATGGAGAAGCTCGCCGAGCAGGCGAGGCTTCTCGGCTCACGACTAC 419
Db 3743 CGCGCTTCGCGCGCGAGCGGCGCTCCAGGCGCTTCTCCGACTCCGCGACGGCACCTCC 3802
Qy 420 TTCAGAAAGGGCTCGCGGCGAGTAGCGGTACGCGAGGCTGGGACACCTCTCTGAAAGACC 479
Db 3803 TGGGCGAGGGGCTCGGCTCTCTGCTGTCGAGCGGCTCTGGAAGCGCGAGCGCAACGCG 3862
Qy 480 ATCGACGACATCAAAAGCGCTTCGCGAGCGCGCGGATCGAAGGCGAGACCTTCGCG 539
Db 3863 CACCCGCTGCTCGCGTGATCGCGGCGAGCGCGGTCAACAGGACGCGCGCTCCAAACGG 3922
Qy 540 CGCTGATGGCTTCTGGGAGATGCGGTCGACACTGCGAGCGGACGACCATGCTCTCGTG 599
Db 3923 CTCACGCGCGCGCGCGCGCTCCAGCAGCGCGCTATCCGACAGGCGCTGCGCGACGCC 3982
Qy 600 TCCCGCGTCCCGCGGCGACTGCTGGCGCAACATGCGCGACGACCAAGTCAGGAGACGCGTC 659
Db 3983 GGGCTCACCGCGCGCGAGCTGACGCGCTGAGGCGCGACGGTACCGGCTCGCG 4042
Qy 660 GACCGCATCTCTCGGCGACCGGGCTCGGCTACACGCGGAGGAGCGCGCGCTTACCG 719
Db 4043 GACCCCATCGAGCGCGAGCGGATCTCTGCGACCTACGCGCGGACGCGGCGAGGCGCT 4102
Qy 720 GATCTGATCCGCGCTCGCTGAGTACCATGTCGGCGCTTGAACGATACAAAGGCTTCTTC 779
Db 4103 CGCTCCAGCTCGGCTCGTGAAGTCGAACATTCGGCCACGCGACGCGCGCGCGCGGCGTG 4162

Qy	1959	CAGACCCCGGCAAC	TGCTCTCTCGGCCTGGGTTCAGAAAGCTGACGTGACCTCGACTCGCGCCGTC	1919
Db	5222	CCACCGCGTGGT	TCGTCTCCGCGCAGCGGACCGCCGCGAGGAGATCCGCGCCGCTATGG	5281
Qy	1919	GACACCATGGGCAAC	ATCCCGGGCGAACTGCTCAACTGGAACCTTCTGTGCTTCAAGCCC	1978
Db	5282	GCGGGACGCGGCCGCGGCA	CCCGGAGGCTTGCGGTACGCCAGCCCTTCCATCTCCCGGAC	5341
Qy	1979	TTCAGCCTTGACCGGCCAGAA	GTAAGTCAATGGTTCGACCTGCTTCGACGACGAGGACAAG	2038
Db	5342	ATGGAAGAGCTCTCTGAC	GAGTTCTCTCGGGTCGCGAGGGCCTGACCTTCGAGGAGCGC	5401
Qy	2039	GTCAAGAACTTCTCGCGGAT	TGGAAGTGGATCTTCGACGCCGCGACGAGCCGGCGAG	2098
Db	5402	CGGATCCCCTGCTCTCCAG	CGGTCAACCGCGCGCTCTGCTCGCGGAGCTCACCTCG	5461
Qy	2099	ACCTTCGCGCAGTTCA	TCAAGGACTTCTTACCAGCGCAACGGGCTTCATCAAGCGGGCGTC	2158
Db	5462	CCGCGTACTGGGTGAC	CACAGATCCGGCGGCGCGTGGCTTCTGGAGCGCGTCTCGCACC	5521
Qy	2159	CTGATCGGCGATCAGGAG	TCGACCTTGCGCAACATCCGCTG---CCGGGTCTTGAACATC	2215
Db	5522	CTGGCGGCCAGGACG	CGCGCTCTCTCGAGATCGGCCGCGACGCGCTCTCACGGCA	5581
Qy	2216	TACCCGATGACAGAAC	CACCTGTGTCGCGCGGATGCTTCAAGGCCCTCGCGGACTGACC	2275
Db	5582	CTCGCGAGGAGGCTCT	TCGCGCCCGCGCAACGAGCGCCCGGAGCTCACGGTC	5641
Qy	2276	TCAGCGAGGACTAC	ACGAGACTCGGCTTCTCCCGGGGGACATCGGCTATCTAGTCA	2335
Db	5642	GTCCCGTGTGCGCGGG	GGCGCCCGGAGCCCGAGCCCGAGACCTCTGCGCGCGTCTCGGACC	5701
Qy	2336	GGCAAGCGCAGGAAG	AGGTCACCCCGCGGATCGGCGCTGCTGCTGAACGACGCGGCTGA	2395
Db	5702	GCCATGTCCACGCG	ACCCCTTGACCGGCGTCTGTTCTCCCGACGGGCGCGGACG	5761
Qy	2396	GCGGGTTCGACCA	CCCGGCTC---GAGCGGCGGGCGGGCGGCATCGAAGCGCGCGGCC	2452
Db	5762	GACCTGCCACGTAC	GCCTTTCGCGCGGAGCACTACTGCTGACGCGCGAGCGCGTACG	5821
Qy	2453	GGGCGCCATGAGC	CACTCCGCGCGCTGGCGCGCGCCCGCCCGACCTTCGCGCGCACCCG	2512
Db	5822	GAGCCCGCGCAT	CTCGGCTTCGACCCGCGCGCGGCAACCGCTGCTGACGACACAGTTCGAG	5881
Qy	2513	CATGCGCCCGCGCT	GGCGTCAATGACGGTCT-----TCGCGAGCGAGCCCCCGC	2563
Db	5882	GTCCGCGGCGGAC	GCGGCTCTGCTGTGACCGCGCTCTCTCCCTGACCGACGACCCCTTG	5941
Qy	2564	ATCGTCNAGGAGG	TGCATGGGCGCGGACCACTGCTGGCGCGGTACGACGCGCTG	2623
Db	5942	CTGGCGACCA	TGTCNAGCGGCGGCTCTGTTTCCCGCGGACCGCGCTTCTCGAGCTC	6001
Qy	2624	GCGGAGACTPAC	GACGCCACCGCGGCTTTCGACATGCGCGCGTCTCTGAGGACATC	2683
Db	6002	GCCCTCGCGCGG	CGGACCACTGTCGGGCGGTTCCGGGTGGAGGAATCACCTCTGAAGCG	6061
Qy	2684	TTGCGCCGCTG	CGGCTGCGGCACTCTCGACTCGGCTGGCGGCGCGGGGAGCGC	2743
Db	6062	CCGCTGCTCT	CGCCCGAGCGGGCGCGTCCGCTCCAGTTCGGCTGCGGTGAGCGGCGC	6121
Qy	2744	TGCGCGCGCGCT	TCTCTGACCGCGG	2769
Db	6122	GAGTTCGCGCGG	CGGCGACCTTCGG	6147

RESULT 11

US-09-364-847-20
Sequence 20. Application US/09364847
Patent No. US20020173019A1
GENERAL INFORMATION:
APPLICANT: Peoples, Oliver P
APPLICANT: Madison, Lara L
APPLICANT: Huismen, Gjal W

```
Qy 2128 CAGGCGCAACGGCTTCATCAACGGCGGGCGTCTGTATCGGCGATCAAGAGGTGCGACTCGG 2187
Db 1251 GAGCAACCCGCTGACCCGCGGAGCGCTGTGAGGTTTTCGGCACTCGGATCGACTGAA 1310
Qy 2188 CAACATCCGCTGCCCGTCTTCAACATCTACCCGATGAGGACCACTGGTGGCGCGGA 2247
Db 1311 ACAGGTCAAAATGCGACATCTACAGCTTTCGGCGCACCAACGACCACTACCCCGTGGCA 1370
Qy 2248 TGCCTTCAAGGCCCTTCGGGGAAGTCACTTCCAGCGAGGACTACACGAGCTCGCCTTCCC 2307
Db 1371 GTCATGTCTACCGTTCGGCGCACCTGTTCGGCGCAAGATCGAGTTCTGCTGTCTCCACAG 1430
Qy 2308 CGGCGGGCACATCGGCATC 2326
Db 1431 CGGCCACATCCAGAGCATC 1449

RESULT 12
US-09-364-847-32
; Sequence 32, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huismann, Gjalte W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; CURRENT FILING DATE: 1999-07-30
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32
; LENGTH: 2571
; TYPE: DNA
; ORGANISM: Pseudomonas putida
; FEATURE:
; NAME/KEY: gene
; LOCATION: (1)..(2571)
; OTHER INFORMATION: phaC1-linker-phaG fusion gene
US-09-364-847-32
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Query Match 2.9%; Score 81.8; DB 9; Length 2571;
Best Local Similarity 45.7%; Pred. No. 2.1e-06;
Matches 447; Conservative 0; Mismatches 517; Indels 15; Gaps 4;

Qy 1354 CAAGTGTACCGGAGAGTGTGGAGTACAGCGCGAAGCTTCGGCGAGGGTATGCAAGAACT 1413
Db 480 CAACCTGGCCAAAGGACCTGGTCAACACGGTGGCATGCGCCAGCCAGGTGAACATGGAGCC 539
Qy 1414 GCTCAAGCGCGACAGATCGACACAGGGGTACACCCCAAGGAGCTGTCACCGCGGAGA 1473
Db 540 CTTGAGGTGGCAAGA---ACCTGGGACCAAGTGAAGGCGCGGTGGTATCCGCAAGCA 596
Qy 1474 CAAGTGTGTCTTCTACCGTACCGCGCGCGCGAGGTGGGACCCAGACGATCCCGCT 1533
Db 597 TGTGTGTGAGTGTATCCAGTACAGCCCATACCGAGCAGGTG---CATGCCGCGCGCT 653
Qy 1534 GCTGATGTCTACGCCCTCGTCAATCGGCCCTTACATGCCGACATCCAGGAGGATCGGTC 1593
Db 654 GCTGTGTGTGCGCGCGAGATCAACAAAGTTCTACGTATTTCGACCTGAGCCCGGAAAGAG 713
Qy 1594 GACGATCAAGGCCCTTCTCGCCACCGGTGAGGACGCTCTATCTGATCGACTGGGGTACCC 1653
Db 714 CTTGCAACGCTACTCTGCTGCGGTTCGAGCAGCAGACCTTTCATCATCAGTGGCGCAACC 773
Qy 1654 GGATCAGGCGCGACCGGGCGCTGACCTCTGATGACTACATCAACGGCTACATCGACCGCTG 1713
Db 774 GACCAAGCCGAGCGGAATGGGGCTGTTCACCTTACATTCGACGGCTCAAGAGGCG-- 831
Qy 1714 GGTGACTACTGTGCGGAGACCCACGGGTTCGACGAGGTCAACCTGCTCGGATCTGCCA 1773
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Db 832 -GTGACGCGGTGTGGCGATTACCGGCGACCAAGACCTGAACATGCTCGGTGCTGCTC 890
Qy 1774 GGGGGGGGCTTACGACCTCTCTACACGGCCCTGCTACACCGGAGAGGTCAAAAACTCGT 1833
Db 891 CGCGGCGATCACTTCGCGGCAATGGTTCGGCCACTATGCGCGCCCTCGGGGAAACAAGT 950
Qy 1834 CACATGTGTACGCGGCTGCTTCAGACCCCGGGCAACCTGCTCTCGGCTGGGTGCA 1893
Db 951 CAATGCCCCGTGACCTGCTGCTGAGCGTGTGAGACACCACTGGAACACCAAGTGCCT 1010
Qy 1894 GAAAGTGCAGCTCGACCTGGCGCTGACACCATGGGCAACATCCGGGCGAACTCTCAA 1953
Db 1011 GTTCGTGACGAGCAGACTTTGGAGGCCGCCAAGCGCCACTCTTACCAAGCGCGTGTGCT 1070
Qy 1954 CTGGACCTTCTGCTGCTCAAGCCCTTTCAGCCTGACCGGCCGAGAGTACGTCAACATGCT 2013
Db 1071 CGAAGGCGAGATGGCCAAAGTGTTCGCTGGATGCGCCCAACGACCTGATCTGGAA 1130
Qy 2014 CGACTGCTGACGAGCAGAGGTCAAGAACTTCTCGCGGATGGA-----GAAGTG 2067
Db 1131 CTACTGGGTCAACAACTACCTGCTCGGCAACGAGCGCGGTGTTTCGACATCCTCTTCTG 1190
Qy 2068 GATCTTCGACAGCGCGGACGAGCGCGGAGACCTTCCCGCAGTTTCATCAAGGACTTCTA 2127
Db 1191 GAAACACGACACCACTGCGCGCTGCGCGCGCTTCCACGGGACCTGATCGAAATGTTCAA 1250
Qy 2128 CCAGCGCAACGGCTTCATCAACGGCGCGGTCTGATCGCGCATCAGGAGGTGCACTGCG 2187
Db 1251 GAGCAACCGCTGACCGCGCGGAGCGCTGGAGGTTTCGGCGACTCCGATCGACTGAA 1310
Qy 2188 CAACATCGCTGCGCGGTCTTGAACATCTACCCGATGAGGACCACTGCTGGTCCCGCGGA 2247
Db 1311 ACAGGTCAAAATGCGACATCTACAGCTTTCGCGGCAACCAACACACATCACCCCGTGGCA 1370
Qy 2248 TGCCTCAAGGCCCTTCGGGAGTGTGACCTTCAGCGAGGACTACACGAGCTGCTTCCC 2307
Db 1371 GTCATGTACCGCTTCGGCGCGACCTGTTTCGGCGGCAAGATCGAGTTCTGCTGTCCAAACAG 1430
Qy 2308 CGGCGGCACATCGGCATC 2326
Db 1431 CGGCCACATCCAGAGCATC 1449

RESULT 13
US-09-364-847-34
; Sequence 34, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huismann, Gjalte W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; CURRENT FILING DATE: 1999-07-30
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 34
; LENGTH: 2571
; TYPE: DNA
; ORGANISM: Pseudomonas putida
; FEATURE:
; NAME/KEY: gene
; LOCATION: (1)..(2571)
; OTHER INFORMATION: phaG-linker-phaC1 fusion gene
US-09-364-847-34
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Query Match 2.9%; Score 81.8; DB 9; Length 2571;
Best Local Similarity 45.7%; Pred. No. 2.1e-06;
Matches 447; Conservative 0; Mismatches 517; Indels 15; Gaps 4;
```

Qy	1354	CAAGCTGACCGAGGAGATGCTGGAGTACAGCCGCAAGCTCGCGAGGGTATGCAAGAACTT	1413
Db	1371	CAACCTTGGCCAAAGGACCTGGTCAACAACAGGTGGCATGCCCAAGCCAGGTGAACATGSGACGC	1430
Qy	1414	GCTCAAGCGCGACAGATCGACACAGGGCTACACCCCAAGGACGTGCTCCACCCCGGAGGA	1473
Db	1431	CTTCGAGGTGGCAAGA--ACTGGGCACAGTGAAGGCGCCGTGTGATACCGCAACGA	1487
Qy	1474	CAAGCTGGTCTCTTACCGGTACCGGCGCCGCGAGGTGGGACCCAGACGATCCCGCT	1533
Db	1488	TGTCTGGAGCTGATCGAGTACAAGCCCATCACCGAGCAGGTG--CATGCGCCCGCGCT	1544
Qy	1534	GCTGATCGTCTACGCGCTCGTCAATCGGCCCTTACATACCCGACATCCAGGAGATCGCTC	1593
Db	1545	GCTGGTGGTCCGCGGAGATCAACAAGTTCTACGTATTCGACCTGAGCCCGGAAAAAGAG	1604
Qy	1594	GACGATCAAGGGCTCTGCTGCCACCCGCTCAGGACGCTCATCTGTCGACTGGGCGTACCC	1653
Db	1605	CCTGGCACGCTACTGCTCGCTCGCGCAGCAGACCTTCATCATCAGCTGCGCNAACCC	1664
Qy	1654	GGATCAGGCCGACCGGGCGTGACCTCGATGACTACATCAAGGCTACATCGACCGCTG	1713
Db	1665	GACCAAGCCACGCGGAATGGGGCTGTCCACCTACATCGACGCGCTCAAGAGAGCG--	1722
Qy	1714	CGTGCATCTACTCGCGGAGACCCACGCGCTGCACAGGCTCAACCTGCTCGGGATCTGCCA	1773
Db	1723	-GTGACGCGGTCTGCGATTACCGGCAGCAAGGACCTGAACATGCTCGGTGCTGCTC	1781
Qy	1774	GGCGGGGCTTTGAGCCTCTGTCTACAGGCCCTGCACTCCGGAAGGTTCAAAAACCTCGT	1833
Db	1782	CGCGGGCATCACCTGACGCGCATTTGCTGGCCCACTATGCGCCCTCTCGCGGAAAAACAAGT	1841
Qy	1834	CACCATGTCAAGCCGCTGCAGCTTCAGACCCCGGCGCAACCTGCTCTCGGCTGGGTCCA	1893
Db	1842	CAATGCCCTGACCTGCTGGTGAAGCTGTGAGACACCACTGMAACAACAGAGTGCCTCT	1901
Qy	1894	GAAAGTCGACGTGCACTGGCCGTGCACACCACTGGGCAACATCCGGCGCAACTGCTCAA	1953
Db	1902	GTTTGTTCGACGAGCAGACTTTGAGGCGCCCAAGCGCCACTCTACACAGGCGGTGTGCT	1961
Qy	1954	CTGGACCTTCTCTGCTCAAGCCCTTACGCTGACCGGCAGAGTACGTCAACATGGT	2013
Db	1962	CGAAGGCAGGAGATGCCAAGGTGTTCCGCTTGGATGCGCCCCAACGACCTGATCTGGAA	2021
Qy	2014	CGACCTGCTCGACGACGAGACAAGGTCAAGAACTTCCTCGGGATGGA-----GAAGTG	2067
Db	2022	CTACTGGGTCAACAACATCTGCTGGCAACAGCGCGCGGTGTTGCAATCCTGTTCTG	2081
Qy	2068	GATCTTCGACAGCCCGGACGAGCCGCGGCGAGACTTTCGCGCAGTTTCATCAAGGACTTCTA	2127
Db	2082	GAAACAAGGACACACGCGCTGCGCGCGCCCTTCACGCGGACCTGATCGAAATGTTCAA	2141
Qy	2128	CCAGCGCAACGGTTCATCAAGCGGGCGCTCTGATCGCGGATCAGGAGGTGCACCTGCG	2187
Db	2142	GAGCAACCGCTGACCGCGCGGACGCCCTGAGGTTTTCGGCACTCGATCGACCTGAA	2201
Qy	2188	CAACATCCGCTGCCCGTCTGAAACATCTACCCGATGCAGGACCAACCTGTGTCCGCCGGA	2247
Db	2202	ACAGGTCAAAATGCGACATCTACAGCCTTTCGCGGCAACCAACACCATCACCCCGTGGCA	2261
Qy	2248	TGCTCTCAAGGCCCTCGCGGACTGACCTCCAGCGAGGACTACAGGAGCTCGCTTTCCC	2307
Db	2262	GTATGCTACCGTTCGGGCACTGTTTCGGCGGCAAGATCGAGTTCTGTCTCAACAG	2321
Qy	2308	CGCGGGCACATCGGCATC	2326
Db	2322	CGGCCACATCCAGAGCATC	2340

RESULT 14

US-09-772-304A-1/c

US 02 072 304A ; Sequence 1, Application US/09772304A

RESULT 15

; Patent No. US20020146785A1
 ; GENERAL INFORMATION: L.H.
 ; APPLICANT: Mahishi, L.H.
 ; APPLICANT: Tripathi, G.
 ; APPLICANT: Ramchander, T. V. N.
 ; APPLICANT: Rawal, S.K.
 ; TITLE OF INVENTION: NOVEL ESCHERICHIA COLI HAVING ACCESSION
 ; TITLE OF INVENTION: NO. PTA 1579 AND ITS USE TO PRODUCE POLYHYDROXYBUTRATE
 ; FILE REFERENCE: A33943 066123.0103
 ; CURRENT APPLICATION NUMBER: US/09/772,304A
 ; CURRENT FILING DATE: 2001-01-29
 ; NUMBER OF SEQ ID NOS: 1
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 1
 ; LENGTH: 4826
 ; TYPE: DNA
 ; ORGANISM: Streptomyces aureofaciens
 ; US-09-772-304A-1

Query Match	2.8%	Score 81	DB 10	Length 4826
Best local Similarity	49.0%	Pred. No. 3e-06		
Matches 329	Conservative 0	Mismatches 335	Indels 7	Gaps 4
Qy 2165	GGCGATCAGGAGGTCGACCTCGCGAAATATCGCTGCCCGCTCTTGAACATCTACCCGATG	2224		
Db 1307	GGCGAGCAGGACGCCACAGAGCGGTCTCCCGGCGAGCGGCGTGGGGCAGCTC	1248		
Qy 2225	CAGGACCACTGTGTCCCGCCGATCCCTCCAAGGCCCTTCGGGGGACTGACCTTCAGCGAG	2284		
Db 1247	CAGCAGCGCGGCCACAGCAGGAGGCCCCCGCAGC---CGAGCGCCACCGCGCCCGGCC	1191		
Qy 2285	GACTACAGGAGCTCGCCTTCCCGCGGGGACATCGGCATCTACGTACGCGGCAAGGG	2344		
Db 1190	GACCAACCCGCGCAGCGTCGCGGGAAGCCGCCGCGACACACCGGCCCGCGCACCGGG	1131		
Qy 2345	CAGGAAGAGTCAACCCCGCGATCGGCGCTGGCTGACGAACGGCGTGAACCGGGTCG	2404		
Db 1130	CCGCGCGACACAGCCGAGACAGCGGGGCCACGGCGCAGGCCCGCGCGCCCGCGCGC	1071		
Qy 2405	ACCCACCCGCTCGACGGGCGCGCGCGGCATC-GAAGGGCGCGCGCGCGCCCATGA	2463		
Db 1070	ATCCGTCCCGGGCTCCCGCTGCCGTGCTGCCGGGGCGCGGTCTGAGCCAGAAGGA	1011		
Qy 2464	GCCATCGCGCGCGTGGCGCCCGCCCGGACCTTTCGCGCGCGCACCCGCTATGCCCCG	2523		
Db 1010	CCGGCCAAACGCGCGCGAGCGCGACGACCGACCGGCACCTCCGGTTACGCTCGCCCCCAG	951		
Qy 2524	C-GCTGGCTACATGACGCTTTCGGAGCGAGCCCCCGCATCGTCAACGAGAGCTCA	2582		
Db 950	CATCGCGCGCCACAGCGCGAGCACACCGGGGCGCGCGCAGCTTCCGACAGGGCAGCG	891		
Qy 2583	TGGGCGCGCAGCACCAACTGTGGCGCGGTACGACGCGCTGGCGGAGACCTACGACGCC	2642		
Db 890	TCGACCCACGCGCGGACCGGAAGCGTCCGGGTCCTCCGCCACACGTTCCGACACCG	831		
Qy 2643	ACCGGGGCTTTCGACATGCGCGCGGTGCTCGAGGACATTTGCGCGCTTCGCGGCT	2702		
Db 830	TCACGGGCCCAGCAGCACCCGCGAGCGGGCAGCGCCACACACGAGCGCGCGGCCA	771		
Qy 2703	CGGSCACCTTCTGACCTCG--CTGGGCGCGGGGAGCGGTGCGCGCGGCTTCTCT	2760		
Db 770	CCACCGGCCCCGACGCGCCAGTACCCCGCGCGGGGTGCTCCGGCAGCGGGGAACGGA	711		
Qy 2761	CGACCGGGCTGGGGGTGACCGGGTGGACTTCTGCCCGGCATGCTCGCCCTCGCGC	2820		
Db 710	CGACCGCGCTCAAACGAGACCGACAGAGTACGCGAGCACCCGCCACCGCGCGGA	651		
Qy 2821	CGCTACGTCC	2831		
Db 650	CGCGCGCGCC	640		

RESULT 15

US-09-815-242-7772

; Sequence 7772, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815.242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7772
; LENGTH: 1992
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1992)
US-09-815-242-7772

Query Match 2.8%; Score 78.4; DB 10; Length 1992;

Best Local Similarity 43.5%; Pred. No. 8.3e-06;

Matches 570; Conservative 0; Mismatches 721; Indels 19; Gaps 4;

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Qy 901 AGGTCATGCCGAGGAGTACGCTCGCGGACTACGCGACATCCACGCGCGCTCGTCA 960
Dy 95 AGGGGTATCGTGTGATCGACGCGGGGAGTTGTCGCCATCGTCGGCGCTCCGGT 154
Qy 961 AGCCCGAGATGCGCTCAAGCAGCGCATGTGACCATGTGTCAGCAGGTCTCTCGCGCGCA 1020
Dy 155 CGGCAAGTCGACCTGATGACATCTCTCGGTGCTCGACCGGCCAGCTCGGCGAGT 214
Qy 1021 TGCCTCGCGACCGCGAGCGAGTGTGCGACGCTTCAGATCGGTTCAGAGTTCGCGG 1080
Dy 215 ACCACTTCGCGCGCGCACGCTGCGCGAACTGGACAGCGACAGCAGGCTGCTGCGCGC 274
Qy 1081 GCGAGGGAAGCGCGCAGCGCCAAAGAGATCGACGCTGAAGCGCGAGTTCGCGGCTTGG 1140
Dy 275 GCGAGCATTCGGCTTGTGTTTCAGGGGTATCACTGATCCCTCGCGCTCGGCGCAGG 334
Qy 1141 CGCGCGCGCGCGCGCGCGCGCTCGCGCGAGCTCGCGCGAGCGCGCGCGCGCGCGG 1200
Dy 335 AAAAGTTCGAGATCGCGCGATCTACGCGGATCTCCGCGGAGCGAGCGCGCACCGCG 394
Qy 1201 CGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1259
Dy 395 CGCGCGCGCGCTGCTGAACGCGCTGGCGCGTGGCGAGCGAGCGACCGCGCGCGCGCG 454
Qy 1260 ACCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1318
Dy 455 TGTTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 514
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Qy 1319 -----GCCTGTCTCCCATTTCCGATCGACATCCGGCGCGCAAGCTGACCGGAGG 1367
Dy 515 TCATCTCGCGCGAGCAACCCACCGCGCGCTCGACAGCGCGCGCGGAGTCTAGG 574
Qy 1368 AGATGCTGAGTAC---AGCGCGAGCTCGCGAGGGTATGCAGAACCTGCTCAAGGCGG 1424
Dy 575 CGTGTCTGAGAGTGGCGAGCGAGCGCGAGCGCGCTGATCTCTGATCACCCACGACCGG 634
Qy 1425 ACCAGATCGACACAGGCTCACCCCAAGAGCTGCTCCACCGCGAGGAGCAAGCTGGTCC 1484
Dy 635 AGCTCGCGCGCGCGCGCAAGCGCATCATCGAGGTGCGCGAGCGCGAGATCTGTCAGCGACA 694
Qy 1485 TCTACCGCTACGGCGCGCGCGAGGTGGCGACCCAGACGATCCCGCTGCTGATCTGTT 1544
Dy 695 GCGCAACGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 754
Qy 1545 ACGCCCTGTCATTCGGCGCTTACATGACCGACATCCAGGAGATCGCTCGACGATCAAGG 1604
Dy 755 ACGATCTCAGCAGCGCTTCGCCGAGGCGAGCGAACCTTCGGGGGCTTGGCGCGCGG 814
Qy 1605 GCCTGCTCGCCACCGGTGAGGACGTCTATCTGATCGACTGGGGCTTACCGGATCAGGCGG 1664
Dy 815 AACTGCTGAGGCGGTGCGCGCGCTGCGCGGTGATGTGGATCAATCGGTTCCGCGCGG 874
Qy 1665 ACCGGCGCTGACCTCGATGACTACATCAACGGCTCATCGACGCTGCGTTCGACTACC 1724
Dy 875 CGCTGACCTGCTCGGGATCATATCGCGCTCGCTCGGTGCTGCTGCTCGCGCTCG 934
Qy 1725 TGGCGGAGACCGCGGTGACACAGGTCAACCTGCTCGGGATCTGCCAGGCGGGGGCT 1784
Dy 935 GCGAGGCGAGCAAGCGCGAGGTGATGGCGAGATGGGCGGTTCGGCTCGAACATCATCT 994
Qy 1785 ---TCAGCTCTGTGTACACGGCGCTTGCACTCCGAGAGGTCAAAAACCTCTGTCACCATGG 1841
Dy 995 ATCTCAGCGGTACTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1054
Qy 1842 TCACGCGCGGTGACTTTCAGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1901
Dy 1055 TCGCGCGCATCGCCACCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1114
Qy 1902 ACGTCGACTGCGCGTTCGACACCATGGGCAACATCCCGCGCGCACTGCTCACTGACCT 1961
Dy 1115 TGGTGTGCTGCTACGGGAACTCGACTACCGCGCGCGCGCGCGCGCGCGCGCGCG 1174
Qy 1962 TCCTGTCTCAAGCGCTTACGCGCTGACCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2021
Dy 1175 TCCCGGAAATCTCACTGCGCGGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGAG 1234
Qy 2022 TCGACGACGAGGACAAGGTCAAGAACTTCTCTCGCGATGGAGAAGTGGATCTTTCGACAGCG 2081
Dy 1235 ACGCGCGCACCAAGGTGCGGTGATCGGCTACAAGGTGCGCAAGAAAGTGTTCGCGCGCG 1294
Qy 2082 CGGACCGCGCGCGCGAGACTTTCGCGCGAGTTCATCAAGGACTTCTACGAGCGCAAGCGGT 2141
Dy 1295 CCAACCGGATCGCGCGCTTACATCTCTCATCGAGAAAGTCCCGTTCGAGGTCTATCGCGGTGC 1354
Qy 2142 TCATCAACGCGCGGTCTGATCGCGGATCAGGAGGTGCGACTCGCGCAAC 2191
Dy 1355 TCGCGGAGAAAGGTCTCAGCTCGCGCGCAAGGATGCGCGCAACACCGCATC 1404
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Search completed: March 23, 2003, 06:00:45

Job time : 851 secs

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GenCore version 5.1.4 p5-4578
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OM protein - protein search, using sw model

Run on: March 23, 2003, 05:51:37 ; Search time 33.4558 Seconds
(without alignments)
322.761 Million cell updates/sec

Title: US-09-779-427-2

Perfect score: 1919
Sequence: 1 VNDTANKTSDWLDIQRKYWE.....AAPKRSTTRRKTTPGTGQ 367

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA.*

- 1: /cgn2_6/ptodata/2/iaa/5A_COMB.pap.*
- 2: /cgn2_6/ptodata/2/iaa/5B_COMB.pap.*
- 3: /cgn2_6/ptodata/2/iaa/6A_COMB.pap.*
- 4: /cgn2_6/ptodata/2/iaa/6B_COMB.pap.*
- 5: /cgn2_6/ptodata/2/iaa/PTUS_COMB.pap.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1919	100.0	367	US-08-809-286B-2	Sequence 2, Appli
2	122.5	6.4	305	US-08-937-271-10	Sequence 10, Appl
3	105	5.5	546	US-08-630-915A-14	Sequence 14, Appl
4	104	5.4	546	US-08-942-423-4	Sequence 4, Appli
5	101	5.3	523	US-08-997-080-114	Sequence 114, App
6	101	5.3	523	US-08-997-362-114	Sequence 114, App
7	101	5.3	523	US-09-095-855-114	Sequence 114, App
8	101	5.3	523	US-09-324-542-114	Sequence 114, App
9	101	5.3	523	US-09-205-426-114	Sequence 114, App
10	101	5.3	541	US-08-997-080-160	Sequence 160, App
11	101	5.3	541	US-08-997-362-160	Sequence 160, App
12	101	5.3	541	US-09-095-855-160	Sequence 160, App
13	101	5.3	541	US-09-324-542-160	Sequence 160, App
14	101	5.3	541	US-09-205-426-160	Sequence 160, App
15	99	5.2	317	US-08-726-306A-168	Sequence 168, App
16	98.5	5.1	580	US-08-906-865-1	Sequence 1, Appli
17	98.5	5.1	580	US-09-129-668-1	Sequence 1, Appli
18	97	5.1	376	5180810-1	Patent No. 5180810
19	96	5.0	1068	US-09-085-199B-11	Sequence 11, Appl
20	96	5.0	10182	US-09-134-001C-3159	Sequence 3159, Ap
21	94.5	4.9	1388	US-09-572-191-2	Sequence 2, Appli
22	94.5	4.9	1388	US-09-723-262-2	Sequence 2, Appli
23	94.5	4.9	1388	US-09-723-219-2	Sequence 2, Appli
24	94.5	4.9	3111	US-08-460-309-4	Sequence 4, Appli
25	94.5	4.9	3111	US-08-125-077-4	Sequence 4, Appli
26	94	4.9	540	US-08-368-834-20	Sequence 20, Appl
27	94	4.9	540	US-08-461-722-3	Sequence 3, Appli

28	94	4.9	540	4	US-08-336-251-3	Sequence 3, Appli
29	94	4.9	540	5	PCT-US94-06362-3	Sequence 3, Appli
30	94	4.9	541	2	US-08-467-822-34	Sequence 34, Appl
31	94	4.9	541	2	US-08-447-154-19	Sequence 19, Appl
32	94	4.9	541	4	US-08-432-697-34	Sequence 34, Appl
33	94	4.9	541	4	US-08-466-248-34	Sequence 34, Appl
34	94	4.9	619	1	US-08-465-746-2	Sequence 2, Appli
35	94	4.9	619	1	US-08-214-164-2	Sequence 2, Appli
36	94	4.9	619	2	US-08-467-852A-3	Sequence 3, Appli
37	94	4.9	619	2	US-08-246-636-2	Sequence 2, Appli
38	94	4.9	619	2	US-08-247-491A-3	Sequence 3, Appli
39	94	4.9	619	2	US-08-319-795-2	Sequence 2, Appli
40	94	4.9	619	2	US-08-468-985-2	Sequence 2, Appli
41	94	4.9	619	3	US-08-312-949-2	Sequence 2, Appli
42	94	4.9	648	1	US-08-072-070-2	Sequence 2, Appli
43	94	4.9	648	1	US-08-469-434-2	Sequence 2, Appli
44	94	4.9	648	1	US-08-214-222-2	Sequence 2, Appli
45	94	4.9	648	2	US-08-467-852A-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-08-809-286B-2
; Sequence 2, Application US/08809286B
; Patent No. 6011144
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Process for manufacturing polyhydroxylic
; fatty acids, and recombinant bacterial strains for
; carrying out the process
; TITLE OF INVENTION: fatty acids, and recombinant bacterial strains for
; carrying out the process
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/809,286B
; FILING DATE: 3-JUL-97
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Patricia A. Kammerer
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: MOBT-152 (28-21(15115)A)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1400
; TELEFAX: 713-787-1440
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 367 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
US-08-809-286B-2

Query Match 100.0%; Score 1919; DB 3; Length 367;
Best Local Similarity 100.0%; Pred. No. 1.7e-167;
Matches 367; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNDTANKTSDWLDIQRKYWETWSELGRKTGLGKTPANPWAGALDHHWQTVSPAAPNDLV 60
DB 1 VNDTANKTSDWLDIQRKYWETWSELGRKTGLGKTPANPWAGALDHHWQTVSPAAPNDLV 60


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QY      1  VNDTANKTSDW-----LDIQRYWETWSELGRKTLGLEKTPANPWA----- 41
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db     29  VNDVSEKEQRWGAKTVOGSHQSHIHKLRENVFOE--HOTLUKELETPGRASHYGG 86
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY     42  -----GALDHWQT--VSPAAPNDLVRDFMEKLAEQ-----GKAFFGLTD 79
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db     87  KFGVEQDRMDRSVAGHEYQSLKSHKCSQVDSVRGFGKFGVQMDRVDSAVGFEYQKTE 146
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY     80  Y-----FTKGLGSSGTO-----GWDTLSTKT-IDDMOKAFASG-----RLEGDET 118
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db    147  KHASQXDYSGGFGKYGVDNRVDKSAVGFDYQKTEKHESQDKYSGFGGKYGIDKOKV 206
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY    119  FRRLMAFWEMPLDNWQRTMSSLSFVPGDLLRNPHQVDRSDVRLISAPGLGYTRREEQAR 178
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db    207  DKSavg-----EYOG-----KTEKHESQDKYVKGFGKFGVQTDRODKCA 247
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY    179  YQDLIRRSLEVSQSAINEY-NGFFGOLGVKSLEMRAPFLOQAEKGVAIESARTLYDAWVG 237
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db    248  LGWDHQBKQLJHESQDKYKTFGFGKFGVQS-ERQ-----DSSAVGFD----- 288
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY    238  CCEEVYAAEVSSADYAHIGHRLVNAQNALKORMSTWDEVL-----GAMPLPT----- 285
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db    289  -YKERLAKHEPOODYAKFGFGKYGQVQDRMDKNASTFEFVVQPSAYQKTVPJEAVTSKT 347
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY    286  --RSELRTLI-QDRLOESRCEGK-----RORQBIETLKROVAALAGGAPAPQASQ 333
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db    348  SNIRANFENLAKEREQEDRRKAEARAQMAKEREQAEARRKLEEQARAKKQTPPAS-- 405
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY    334  PSTRPAPATAPAA-----SAAPKRSSTTRR 358
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db    406  PSpQIEDRPSSPIVEDAAPFAKESYSR 434
      ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

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RESULT 4

US-08-942-423-4
 ; Sequence 4, Application US/08942423
 ; Patent No. 5891673
 ; GENERAL INFORMATION:
 ; APPLICANT: Hashimoto, Yasuhiro
 ; APPLICANT: Takemoto, Yoshihiro
 ; TITLE OF INVENTION: Lck Binding Protein
 ; NUMBER OF SEQUENCES: 68
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Syntex (U.S.A.) Inc.
 ; STREET: 3401 Hillview Ave.
 ; CITY: Palo Alto
 ; STATE: California
 ; COUNTRY: U.S.A.
 ; ZIP: 94303
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/942,423
 ; FILING DATE: 01-OCT-1997
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/362,715
 ; FILING DATE: 23-DEC-1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Peries, Rohan
 ; REGISTRATION NUMBER: 35,752
 ; REFERENCE/DOCKET NUMBER: 28260
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (415) 852-1698
 ; TELEFAX: (415) 496-3529
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 546 amino acids
 ; TYPE: amino acid

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; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: HSI
US-08-942-423-4

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Query Match	5.4%;	Score 104;	DB 2;	Length 546;
Best Local Similarity	19.8%;	Pred. No. 0.32;		
Matches	89;	Conservative	67;	Mismatches 159; Indels 134; Gaps

QY	1	VNDTANKTSDW	-----LDIQRYWETWSELGKRTLTGLEKTPANPWA-----	41
DB	29	VNDVSEKEQRWGAKTVOGSGHQEHINIHKLRENVQFQ	--HQTLLKKELETGPKASHGYGG	86
QY	42	-----GALDHWQOT--VSPAAPNDLVRDPMKLAEQ-----	-----GKAPFGLTD	79
DB	87	KFGVEQDRMDRSVAGVHEYOSKLKSHCSQVDSVRGFGKFGVQMDRVQDSAVGFEYOGKTE	146	
QY	80	Y-----FTKGLGSSSGTQ-----GWDTLSTKT-IDDMQKAFASG-----	-----RIEGDET	118
DB	147	KHASQXDYSGFGGRYGVQADRVDKSAVGDFYOGKTEKHESQKDYSGFGKYGDIDKDV	206	
QY	119	FRLRLMAFWEMPLDNWORTWSSLSVPDGLLRNMPHQVDVSDVDRILSAPGLGYTREEQAR	178	
DB	207	DKSAVGQ-----EYQG-----KTEKHESQKDYKVGFGKFGVQTDRODKA	247	
QY	179	YQDLIRRSLEYQOSALNEY-NGFFQGLGVKSLERMRAFLQCGQAEKGVAIESARTLYDAWVG	237	
DB	248	LQWDHQEKLQKHESQKDYKTGFGGKFGVOS-ERQ-----	-----DSSAVGFD-----	288
QY	238	CCEVYAEVSSADYAHIIHGLRVNAQMLKQRMSTWMDVL-----	-----GAMPLPT-----	285
DB	289	-YKERLAKHEPQODYAKGFGGKYGVQKDRMDKNASTFEEVWQVPSAYQKTVPTEIAVTSKT	347	
QY	286	---RSELRTLI-QDRLOESRGEK-----	-----RQRQBIETLKQVAALACGAPAPQASAQ	333
DB	348	SNTRAFENLAKEREQEDRRKAEAEARAQMAKERQEQEEARRKLEBQARAKQTTPPAS	---405	
QY	334	PSTRPATAPAA-----	-----SAAPKRSTTTTR	358
DB	406	PSPOETEDRPPSSPIVEDAAPFKAEBSYR	434	

RESULT 5

US-08-997-080-114
; Sequence 114, Application US/08997080
; Patent No. 5968524
; GENERAL INFORMATION:
; APPLICANT: WATSON, JAMES D.
; APPLICANT: TAN, PAUL L.J.
; TITLE OF INVENTION: METHODS AND COMPOUNDS FOR THE TREATMENT OF IMMUNOLOGICALLY-
; NUMBER OF SEQUENCES: 194
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/997,080
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

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;
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1007
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 114:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 523 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-997-080-114

Query Match 5.3%; Score 101; DB 2; Length 523;
Best Local Similarity 22.4%; Pred. No. 0.57;
Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRFMEKLAESG-----KAFGLTDYFTKGLGSSG-TQGW-----DTLSKTIIDMQ 105
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 158 ELIAEAMDKVGNEGVTVEESNTFGLQLELTEGMRFDKGYISGFVTDAREQEAIVLEDPY 217
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 106 KAFASGRIEGDETFRRLMAFWEMPLDNMQRTWSSLSPPVGDLLRNMPHDQVRDSDRI-L 164
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 218 ILLVSKV---STVKDLPLEKVIQAGKPLIIAEDVEGEALSTLVNKNIRGTFKSVAV 274
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 165 SAPGLGYTREQARYQDLIRRSLEYQSALNEYNGFFGQLGKSLERMAFLOGQAEKGVA 224
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 275 KAPGFGDRR--KAMLQDM--AILTGGQVVSERVGL-----SLETADVSLLGQARKVVV 323
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 225 IESATLY-----DAWVCCCEEVAAE-EVSSADYAHIGHRLVNAQMAKORMSTMVDEV 277
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 324 TKDETTIVGSGSDSAIAGRVAQIRAEIENSDSY-----DREKLERLAKLAGV 374
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 278 ----LGAMPLPTRSELRTLDRLQESRGEGKRQROEIEITLKQVAAALAGGA----QPAP 328
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 375 AVIKAGA---ATEVELKERKHIEDAVRNAKAAVEE-----GIVAGGVALIQSAP 422
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 6
US-08-997-362-114
; Sequence 114, Application US/08997362
; Patent No. 5985287
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Hiyama, Jun
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Scott, Linda
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR
; TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF MYCOBACTERIAL INFECTIONS
; NUMBER OF SEQUENCES: 194
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Fast-SEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; FILING DATE:

; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1007
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 114:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 523 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-997-080-114

Query Match 5.3%; Score 101; DB 2; Length 523;
Best Local Similarity 22.4%; Pred. No. 0.57;
Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRFMEKLAESG-----KAFGLTDYFTKGLGSSG-TQGW-----DTLSKTIIDMQ 105
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 158 ELIAEAMDKVGNEGVTVEESNTFGLQLELTEGMRFDKGYISGFVTDAREQEAIVLEDPY 217
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 106 KAFASGRIEGDETFRRLMAFWEMPLDNMQRTWSSLSPPVGDLLRNMPHDQVRDSDRI-L 164
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 218 ILLVSKV---STVKDLPLEKVIQAGKPLIIAEDVEGEALSTLVNKNIRGTFKSVAV 274
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 165 SAPGLGYTREQARYQDLIRRSLEYQSALNEYNGFFGQLGKSLERMAFLOGQAEKGVA 224
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 275 KAPGFGDRR--KAMLQDM--AILTGGQVVSERVGL-----SLETADVSLLGQARKVVV 323
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 225 IESATLY-----DAWVCCCEEVAAE-EVSSADYAHIGHRLVNAQMAKORMSTMVDEV 277
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 324 TKDETTIVGSGSDSAIAGRVAQIRAEIENSDSY-----DREKLERLAKLAGV 374
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 278 ----LGAMPLPTRSELRTLDRLQESRGEGKRQROEIEITLKQVAAALAGGA----QPAP 328
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 375 AVIKAGA---ATEVELKERKHIEDAVRNAKAAVEE-----GIVAGGVALIQSAP 422
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 7
US-09-095-855-114
; Sequence 114, Application US/09095855
; Patent No. 6160093
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Compounds and Methods for
; TITLE OF INVENTION: Treatment and Diagnosis of Mycobacterial Infections
; NUMBER OF SEQUENCES: 208
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; FILING DATE:
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; APPLICATION NUMBER: US/09/095,855
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/705,347
; FILING DATE: 29-AUG-1996
; APPLICATION NUMBER: 08/873,970
; FILING DATE: 12-JUN-1997
; APPLICATION NUMBER: 08/997,362
; FILING DATE: 23-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 114:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 523 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-095-855-114

Query Match 5.3%; Score 101; DB 4; Length 523;
Best Local Similarity 22.4%; Pred. No. 0.57;
Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRDFMEKLAEOG-----KAFGLTDYFTKGLGSSG-TQGW-----DTLSKTIIDMQ 105
DB 158 ELIAEAMDKVNEGVTVEESNTFGQLTEGMRFDKGYISGYFVTDAAEQEAILEDPY 217
QY 106 KAFASGRIEGDTEFRRLMAFWEMPLDNWQRTMSSLSPPVGDLLRNPHDOVRDSVDRI-L 164
DB 218 ILLVSSKV---STVKDLLPLEKVIQAGKPLIIAEDVEGEALSTLVNKNKIRGTFSKAV 274
QY 165 SAPGLGYTREEQARYQDLIRRSLEYQSALNEYNGFFGQGVKSLERMRAFLQGAQKGYA 224
DB 275 KAPGFGDRR--KAMLQDM--AILTGGQVVSERVGL-----SLETADVSLLGQARKVV 323
QY 225 IESARTLY-----DAWVGCCEEVYAE-EVSSADYAHIHGRLVNAQMAKQRMSTWDEV 277
DB 324 TKDETTIVEGSDSDAIAGRVAQIRAEIENSDDY-----DREKLERLAKLAGV 374
QY 278 ----LGAMPLPTRSELRTLODRLOESRGEKQRQOEIETLKRQVAALAGGA---QPAP 328
DB 375 AVIKAGA---ATEVELKERRHIEDAVRNAKAAVE-----GIVAGGGVALLQSAP 422

RESULT 9
US-09-205-426-114
; Sequence 114, Application US/09205426
; Patent No. 6406704
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; TITLE OF INVENTION: Compounds and Methods for Treatment and
; TITLE OF INVENTION: Diagnosis of Mycobacterial Infections
; FILE REFERENCE: 11000.1002c4
; CURRENT APPLICATION NUMBER: US/09/205,426
; CURRENT FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: 09/095,855
; EARLIER FILING DATE: 1998-06-11
; EARLIER APPLICATION NUMBER: 08/997,362
; EARLIER FILING DATE: 1997-12-23
; EARLIER APPLICATION NUMBER: 08/873,970
; EARLIER FILING DATE: 1997-06-12
; EARLIER APPLICATION NUMBER: 08/705,347
; EARLIER FILING DATE: 1996-08-29
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 114
; LENGTH: 523
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-09-205-426-114

Query Match 5.3%; Score 101; DB 4; Length 523;
Best Local Similarity 22.4%; Pred. No. 0.57;
Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRDFMEKLAEOG-----KAFGLTDYFTKGLGSSG-TQGW-----DTLSKTIIDMQ 105
DB 158 ELIAEAMDKVNEGVTVEESNTFGQLTEGMRFDKGYISGYFVTDAAEQEAILEDPY 217
QY 106 KAFASGRIEGDTEFRRLMAFWEMPLDNWQRTMSSLSPPVGDLLRNPHDOVRDSVDRI-L 164
DB 218 ILLVSSKV---STVKDLLPLEKVIQAGKPLIIAEDVEGEALSTLVNKNKIRGTFSKAV 274
QY 165 SAPGLGYTREEQARYQDLIRRSLEYQSALNEYNGFFGQGVKSLERMRAFLQGAQKGYA 224
DB 275 KAPGFGDRR--KAMLQDM--AILTGGQVVSERVGL-----SLETADVSLLGQARKVV 323
QY 225 IESARTLY-----DAWVGCCEEVYAE-EVSSADYAHIHGRLVNAQMAKQRMSTWDEV 277
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
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; APPLICATION NUMBER: US/09/095,855
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/705,347
; FILING DATE: 29-AUG-1996
; APPLICATION NUMBER: 08/873,970
; FILING DATE: 12-JUN-1997
; APPLICATION NUMBER: 08/997,362
; FILING DATE: 23-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 114:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 523 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-095-855-114

Query Match 5.3%; Score 101; DB 4; Length 523;
Best Local Similarity 22.4%; Pred. No. 0.57;
Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRDFMEKLAEOG-----KAFGLTDYFTKGLGSSG-TQGW-----DTLSKTIIDMQ 105
DB 158 ELIAEAMDKVNEGVTVEESNTFGQLTEGMRFDKGYISGYFVTDAAEQEAILEDPY 217
QY 106 KAFASGRIEGDTEFRRLMAFWEMPLDNWQRTMSSLSPPVGDLLRNPHDOVRDSVDRI-L 164
DB 218 ILLVSSKV---STVKDLLPLEKVIQAGKPLIIAEDVEGEALSTLVNKNKIRGTFSKAV 274
QY 165 SAPGLGYTREEQARYQDLIRRSLEYQSALNEYNGFFGQGVKSLERMRAFLQGAQKGYA 224
DB 275 KAPGFGDRR--KAMLQDM--AILTGGQVVSERVGL-----SLETADVSLLGQARKVV 323
QY 225 IESARTLY-----DAWVGCCEEVYAE-EVSSADYAHIHGRLVNAQMAKQRMSTWDEV 277
DB 324 TKDETTIVEGSDSDAIAGRVAQIRAEIENSDDY-----DREKLERLAKLAGV 374
QY 278 ----LGAMPLPTRSELRTLODRLOESRGEKQRQOEIETLKRQVAALAGGA---QPAP 328
DB 375 AVIKAGA---ATEVELKERRHIEDAVRNAKAAVE-----GIVAGGGVALLQSAP 422

RESULT 8
US-09-324-542-114
; Sequence 114, Application US/09324542
; Patent No. 6328978
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Methods and Compounds for the Treatment
; TITLE OF INVENTION: of Immunologically-Mediated Skin Disorders
; FILE REFERENCE: 11000.1007c1
; CURRENT APPLICATION NUMBER: US/09/324,542
; CURRENT FILING DATE: 1999-06-02
; EARLIER APPLICATION NUMBER: US 08/997,080
; EARLIER FILING DATE: 1997-12-23
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 114
; LENGTH: 523
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
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QY 278 ----LGAMPLPTRSELRLTLDRLQESRGEGRQROEIEIETLKQVAALAGGA-----OPAP 328
Db 375 AVIKAGA---ATEVELKERRHIEDAVRNAKAAVEE-----GIVAGGVALLOQAP 422

RESULT 12

US-09-095-855-160

; Sequence 160, Application US/09095855

; Patent No. 6160093

; GENERAL INFORMATION:

; APPLICANT: Tan, Paul

; APPLICANT: Visser, Elizabeth

; APPLICANT: Skinner, Margot

; APPLICANT: Prestidge, Ross

; TITLE OF INVENTION: Compounds and Methods for

; TITLE OF INVENTION: Treatment and Diagnosis of Mycobacterial Infections

; NUMBER OF SEQUENCES: 208

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Law Offices of Ann W. Speckman

; STREET: 2601 Elliott Avenue, Suite 4185

; CITY: Seattle

; STATE: WA

; COUNTRY: USA

; ZIP: 98121

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; FILING DATE: 29-AUG-1996

; APPLICATION NUMBER: 08/705,347

; FILING DATE: 12-JUN-1997

; APPLICATION NUMBER: 08/997,362

; FILING DATE: 23-DEC-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Sleath, Janet

; REGISTRATION NUMBER: 37,007

; REFERENCE/DOCKET NUMBER: 11000.1002c3

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 206-269-0565

; TELEFAX: 206-269-0563

; TELEX:

; INFORMATION FOR SEQ ID NO: 160:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 541 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; US-09-095-855-160

Query Match 5.3%; Score 101; DB 4; Length 541;

Best Local Similarity 22.4%; Pred. No. 0.59;

Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRDFMEKLABQG-----KAPFGLTDYFTKGLGSSG-TQGW-----DTLSKTIIDMQ 105

Db 158 ELIAEAMDKVNGEIVTVEESNTFGLQLELTEGMRFDKGYISFYVTDARQEAVALDEPY 217

QY 106 KAFASGRIEGDETFRRLMAFWEMPLDNWORTMSSLSPPVGDLRLNMPHDOVRDSDRI-L 164

Db 218 ILLVSSKV---STVKDLLPLEKVIQAKGPLIIIAEDVEGEALSTLVNKNKIRGTFKSVAV 274

QY 165 SAPGLYTREQARYQDLIRRSLEYQSALNEYNGFFGQGVKSLERMAFLQGAKEGVA 224

Db 275 KAPGFGDRR--KAMLQDM--ALLTGQVVVSERVGL-----SLETADVSLLGQARKVVV 323

QY 225 IESARTLY-----DAWVGCCEEVYAE-EVSSADYAHIGHRLVNAQMALKORMSTMVDEV 277
Db 324 TKDETTIVEGSGSDAIAGRVAQIRAEIENSDDY-----DREKQERLAKLGGV 374
QY 278 ---LGAMPLPTRSELRLTLDRLQESRGEGRQROEIEIETLKQVAALAGGA---OPAP 328
Db 375 AVIKAGA---ATEVELKERRHIEDAVRNAKAAVEE-----GIVAGGVALLOQAP 422

RESULT 13

US-09-324-542-160

; Sequence 160, Application US/09324542

; Patent No. 6328978

; GENERAL INFORMATION:

; APPLICANT: Watson, James D.

; APPLICANT: Tan, Paul L.J.

; APPLICANT: Prestidge, Ross

; TITLE OF INVENTION: Methods and Compounds for the Treatment

; TITLE OF INVENTION: of Immunologically-Mediated Skin Disorders

; FILE REFERENCE: 11000.1007c1

; CURRENT APPLICATION NUMBER: US/09/324,542

; CURRENT FILING DATE: 1999-06-02

; EARLIER APPLICATION NUMBER: US 08/997,080

; EARLIER FILING DATE: 1997-12-23

; NUMBER OF SEQ ID NOS: 194

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 160

; LENGTH: 541

; TYPE: PRT

; ORGANISM: Mycobacterium vaccae

; US-09-324-542-160

Query Match 5.3%; Score 101; DB 4; Length 541;

Best Local Similarity 22.4%; Pred. No. 0.59;

Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRDFMEKLABQG-----KAPFGLTDYFTKGLGSSG-TQGW-----DTLSKTIIDMQ 105

Db 158 ELIAEAMDKVNGEIVTVEESNTFGLQLELTEGMRFDKGYISFYVTDARQEAVALDEPY 217

QY 106 KAFASGRIEGDETFRRLMAFWEMPLDNWORTMSSLSPPVGDLRLNMPHDOVRDSDRI-L 164

Db 218 ILLVSSKV---STVKDLLPLEKVIQAKGPLIIIAEDVEGEALSTLVNKNKIRGTFKSVAV 274

QY 165 SAPGLYTREQARYQDLIRRSLEYQSALNEYNGFFGQGVKSLERMAFLQGAKEGVA 224

Db 275 KAPGFGDRR--KAMLQDM--ALLTGQVVVSERVGL-----SLETADVSLLGQARKVVV 323

QY 225 IESARTLY-----DAWVGCCEEVYAE-EVSSADYAHIGHRLVNAQMALKORMSTMVDEV 277

Db 324 TKDETTIVEGSGSDAIAGRVAQIRAEIENSDDY-----DREKQERLAKLGGV 374

QY 278 ---LGAMPLPTRSELRLTLDRLQESRGEGRQROEIEIETLKQVAALAGGA---OPAP 328

Db 375 AVIKAGA---ATEVELKERRHIEDAVRNAKAAVEE-----GIVAGGVALLOQAP 422

RESULT 14

US-09-205-426-160

; Sequence 160, Application US/09205426

; Patent No. 6406704

; GENERAL INFORMATION:

; APPLICANT: Watson, James D.

; APPLICANT: Tan, Paul L. J.

; TITLE OF INVENTION: Compounds and Methods for Treatment and

; TITLE OF INVENTION: Diagnosis of Mycobacterial Infections

; FILE REFERENCE: 11000.1002c4

; CURRENT APPLICATION NUMBER: US/09/205,426

; CURRENT FILING DATE: 1998-12-04

; EARLIER APPLICATION NUMBER: 09/095,855

; EARLIER FILING DATE: 1998-06-11

; EARLIER APPLICATION NUMBER: 08/997,362

; EARLIER FILING DATE: 1997-12-23

EARLIER APPLICATION NUMBER: 08/873,970
EARLIER FILING DATE: 1997-06-12
EARLIER APPLICATION NUMBER: 08/705,347
EARLIER FILING DATE: 1996-08-29
NUMBER OF SEQ ID NOS: 208
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 160
LENGTH: 541
TYPE: PRT
ORGANISM: Mycobacterium vaccae
US-09-205-426-160

Query Match 5.3%; Score 101; DB 4; Length 541;
Best Local Similarity 22.4%; Pred. No. 0.59;
Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;
Qy 58 DIIVDFMEKLAEGQ-----KAFGLTDYFTKGLGSSQ--TOGW-----DTLSKTIIDMQ 105
Db 158 ELIAEAMDKVNEGIVTVEESTNFTGLQLELTGMRFDKGYISGYFTDAEROEAVLEDPY 217
Qy 106 KAFASGRIEGDETFRRLMFAFWEMPLDNMORTWSSLSPPVPGDLLRNPHDOVRDSVDRI-L 164
Db 218 ILLVSKV---STVKDLLPLEKVQAGKPLIIAEDVEGEALSTLVNKKIRGTFKSVAV 274
Qy 165 SAPGLYTREOQARYQDLIRRSLEYQSALNEYNGFFQGLGVKSLERMRAFLQQAEGVA 224
Db 275 KAPGFDRR--KAMLQDM--AILTGOVVSRVGL-----SLETADVSLLGQARKVVV 323
Qy 225 IESATLY-----DAWCCCEVVAE-EVSSADYAHIGHRLVNAQMAKORMSTMDEV 277
Db 324 TKDETTVEGSDSAIAGVAQIRAEIENSDDY-----DREKLOERLAKLAGV 374
Qy 278 ----LCAMPLPTRSELRTQDLQESRGSGKQROEITLKRQVAALAGGA----QPAP 328
Db 375 AVIKAGA---ATEVELKERKHRIEDAVRNAKAAVE-----GIVAGGVALLQSAP 422

RESULT 15
US-08-726-306A-168
Sequence 168, Application US/08726306A
Patent No. 5958684
GENERAL INFORMATION:
APPLICANT: van Leeuwen, Frederik Willem
APPLICANT: Burbach, Johannes Peter Henri
APPLICANT: Grosveld, Franklin G.
TITLE OF INVENTION: DIAGNOSIS METHOD AND REAGENTS
NUMBER OF SEQUENCES: 189
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: 1 Financial Center
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/726,306A
FILING DATE: 02-Oct-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 95/20080.4
FILING DATE: 02-Oct-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/009,832
FILING DATE: 01-Jan-1996
ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kathleen M.
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 96,048-A (3255/00784)
TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 345-9100
TELEFAX: (617) 345-9111
INFORMATION FOR SEQ ID NO: 168:
SEQUENCE CHARACTERISTICS:
LENGTH: 317 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-726-306A-168
Query Match 5.2%; Score 99; DB 2; Length 317;
Best Local Similarity 22.7%; Pred. No. 0.41; Indels 104; Gaps 15;
Matches 75; Conservative 32; Mismatches 119; Indels 104; Gaps 15;
Qy 53 PAAPNDLVDRDFMEKLAEOGKAF-----GLTDYFTKGLGSSGTQGWDTLSKTIDDMQKA 107
Db 17 PRAQAQMMFSGGADALLGAPFAPLHGGGSLHYALARKGGAGGTRS----- 62
Qy 108 FASGRIEGDETFRRLMFAFWEMPLDNWQRT-MSSLSPPVPGDLLRNPHDQVRDSVDRILSA 166
Db 63 -AAGSSSG-----PFSWTRTSVSVSASP-SRFRGAGAASSTDLSLDTLSNG 106
Qy 167 P-----GLGYTREOQARYQDLIRRSLEYQSALNE-YNGFFQGLGVKSLERMRAFLQQA 220
Db 107 PEGCMVAVATSRSEKEQLQ-----ALNDRFAGYIDK--VRQLEAHNRSLEGEA- 152
Qy 221 KGVAIESARTLYDAWVGCCBEVVAEEVSS-----ADVAHIG 257
Db 153 -----AALROOQAGRSANGELYEREVEMRGAVLRIGAARGQLRLEQEHLLIEDIAHVRO 206
Qy 258 RLVAQNM-----ALKORMSTMDEVLGAMPLPTRSELRTLDRLQESRGSGKQROEIE 311
Db 207 RLDDEARQREAEAAARALARFAQAEAAA-----RVDLQKKAQALQEBCCGYLRRHHQE-- 259
Qy 312 TLKRQVAALAGGAQ--PAPOASAQPSIRPA 339
Db 260 -----EVGELLGOIQSGGAAQQAQMAETRDA 285

Search completed: March 23, 2003, 05:54:15
Job time : 36.4558 secs

GenCore version 5.1.4_p5-4578
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OM protein - protein search, using sw model

Run on: March 23, 2003, 06:00:52 ; Search time 39.0318 Seconds
(without alignments)
502.684 Million cell updates/sec

Title: US-09-779-427-2

Perfect score: 1919

Sequence: 1 VNDTANKTSDWLDIQRKYWE.....AAPKRSYTRRKTKPTTGG 367

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*
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3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
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10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1919	100.0	367	10	US-09-779-427-2
2	124.5	6.5	309	9	US-09-820-843A-24
3	117	6.1	265	9	US-09-987-107-17
4	116	6.0	265	9	US-09-987-107-18
5	113.5	5.9	2910	9	US-10-124-800-2
6	109.5	5.7	829	10	US-09-946-805-8
7	107.5	5.6	1579	10	US-09-801-368-368
8	107	5.6	264	9	US-09-987-107-22
9	105	5.5	546	10	US-09-879-957-14
10	103	5.4	483	9	US-09-974-298-41
11	103	5.4	483	9	US-09-981-353-158
12	103	5.4	483	10	US-09-919-497-79
13	102.5	5.3	681	10	US-09-815-242-11830
14	102	5.3	482	10	US-09-779-307-17
15	101	5.3	266	9	US-09-987-107-19
16	101	5.3	523	9	US-10-051-643-114
17	101	5.3	523	9	US-09-880-505-114
18	101	5.3	541	9	US-10-051-643-160
19	101	5.3	541	9	US-10-880-505-160

20	100.5	5.2	267	9	US-09-987-107-16	Sequence 16, Appl
21	96	5.0	2472	10	US-09-815-242-5064	Sequence 5064, Ap
22	95.5	5.0	329	9	US-09-987-107-14	Sequence 14, Appl
23	95.5	5.0	344	9	US-09-987-107-68	Sequence 68, Appl
24	95.5	5.0	384	9	US-09-765-061B-73	Sequence 73, Appl
25	94	4.9	619	9	US-09-882-774-1	Sequence 1, Appli
26	94	4.9	752	10	US-09-835-081-2	Sequence 2, Appli
27	93.5	4.9	609	10	US-09-828-310-14	Sequence 14, Appl
28	93.5	4.9	693	10	US-09-752-639-154	Sequence 154, App
29	93.5	4.9	693	10	US-09-984-198-154	Sequence 154, App
30	93.5	4.9	786	10	US-09-803-126-6	Sequence 6, Appli
31	93	4.8	254	9	US-10-141-627-4	Sequence 4, Appli
32	93	4.8	366	9	US-09-842-364-3	Sequence 3, Appli
33	93	4.8	366	10	US-09-751-877-3	Sequence 3, Appli
34	93	4.8	366	10	US-09-835-996A-2	Sequence 2, Appli
35	93	4.8	400	10	US-09-835-996A-41	Sequence 41, Appl
36	93	4.8	540	9	US-09-712-363-169	Sequence 169, App
37	93	4.8	540	9	US-10-267-311-4	Sequence 4, Appli
38	93	4.8	540	10	US-09-847-637B-6	Sequence 6, Appli
39	93	4.8	578	10	US-09-925-300-1496	Sequence 1496, Ap
40	93	4.8	639	9	US-10-267-311-17	Sequence 17, Appl
41	93	4.8	648	9	US-10-267-311-29	Sequence 29, Appl
42	93	4.8	690	9	US-10-068-059-10	Sequence 10, Appl
43	93	4.8	709	9	US-10-068-059-8	Sequence 8, Appli
44	93	4.8	724	9	US-10-068-059-12	Sequence 12, Appl
45	93	4.8	746	9	US-10-068-059-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1

US-09-779-427-2

; Sequence 2, Application US/09779427

; Patent No. US20010031489A1

; GENERAL INFORMATION:

; APPLICANT: STEINBUCHER, Alexander

; APPLICANT: LIEBERGESELL, Matthias

; APPLICANT: VALENTIN, Henry

; APPLICANT: PRIES, Andreas

; TITLE OF INVENTION: Process for manufacturing polyhydroxylic fatty acids, and recomb

; TITLE OF INVENTION: bacterial strains for carrying out the process

; FILE REFERENCE: MOBT:152-2 - 11899.0152.DVUS01

; CURRENT APPLICATION NUMBER: US/09/779,427

; CURRENT FILING DATE: 2001-02-08

; PRIOR APPLICATION NUMBER: US 09/420,119

; PRIOR FILING DATE: 1999-10-18

; PRIOR APPLICATION NUMBER: US 08/809,286

; PRIOR FILING DATE: 1997-07-03

; PRIOR APPLICATION NUMBER: WO 96/08566

; PRIOR FILING DATE: 1995-09-15

; NUMBER OF SEQ ID NOS: 3

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 2

; LENGTH: 367

; TYPE: PRT

; ORGANISM: Thiocapsa pfennigii

US-09-779-427-2

Query Match 100.0%; Score 1919; DB 10; Length 367;

Best Local Similarity 100.0%; Pred. No. 3.7e-146;

Matches 367; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 VNDTANKTSDWLDIQRKYWETWSELGRKTLGLEKTPANPWAGALDHHWOTVSPAAPNDLV 60

DB 1 VNDTANKTSDWLDIQRKYWETWSELGRKTLGLEKTPANPWAGALDHHWOTVSPAAPNDLV 60

OY 61 RDFMEKLAEOQKAPFLGTYFTKGLGSSGTCGWDTLSKTIIDDMQKAFASGRIGEDTFR 120

DB 61 RDFMEKLAEOQKAPFLGTYFTKGLGSSGTCGWDTLSKTIIDDMQKAFASGRIGEDTFR 120

OY 121 RLMATFWEPLDNWQRTMSLSLSPVPGDLLRNPHDQVRSVDRILSAPGLGYTREFQARYQ 180

Db 121 RLMAFWPLNDWQMTQSSLSVPGDLLRNMPHDQVRSDVDRILSAPGLGYTREQARYQ 180

Qy 181 DLIRSLYSQALNEYNQFFGQGVKSLERMAFLQGOAEKGAJESARTLYDAWVGCE 240

Db 181 DLIRSLYSQALNEYNQFFGQGVKSLERMAFLQGOAEKGAJESARTLYDAWVGCE 240

Qy 241 EYAEVSSADYAHITHGRLVNAQMKORMSTMVDEVILGAMPLPTRSELRTLDRLQESR 300

Db 241 EYAEVSSADYAHITHGRLVNAQMKORMSTMVDEVILGAMPLPTRSELRTLDRLQESR 300

Qy 301 GEGKQREIETLKQVAALAGCAQAPQASQAPSTRPAPATAPASAPKRSITTRKT 360

Db 301 GEGKQREIETLKQVAALAGCAQAPQASQAPSTRPAPATAPASAPKRSITTRKT 360

Qy 361 TKPTTGQ 367

Db 361 TKPTTGQ 367

RESULT 2

US-09-820-843A-24

; Sequence 24, Application US/09820843A

; Publication No. US20030039963A1

; GENERAL INFORMATION:

; APPLICANT: Council of Scientific and Industrial Research

; TITLE OF INVENTION: A COMPUTATIONAL METHOD FOR THE IDENTIFICATION OF CANDIDATE PROTEIN

; FILE REFERENCE: O63915

; CURRENT APPLICATION NUMBER: US/09/820.843A

; CURRENT FILING DATE: 2001-03-30

; NUMBER OF SEQ ID NOS: 118

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 24

; LENGTH: 309

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

; FEATURE:

; NAME/KEY: misc feature

; OTHER INFORMATION: polyhydroxyalkanoate synthesis protein Phap

; NAME/KEY: misc feature

; OTHER INFORMATION: GI|9951352

US-09-820-843A-24

Query Match 6.5%; Score 124.5; DB 9; Length 309;

Best Local Similarity 24.4%; Pred. No. 0.018;

Matches 39; Conservative 29; Mismatches 59; Indels 33; Gaps 5;

Qy 218 QAEKGAJESARTLYDAWVGCEEYAEVSSADYAHITHGRLVNAQMKORMSTMVDEV 277

Db 52 KAEL-----EAKSDVDAQVGAAKASARSASAKSKVD--EVRDRALGKWSELEAFDKRLNSA 104

Qy 278 LGAMPLPTRSELRTLDRLQESRGEKQREIETLKQVAALAG-CAQAPQASQAPSTR 336

Db 105 ISRLGVSRNEVKEJHSHK-----VDLTQIEKLTGVSVKPAKAAKAPAA 150

Qy 337 RPA-----PATAPASAAKRSITTRKTTPKT 365

Db 151 KPAKPAKTAATAAKPAKPAKAAKPAKPAKTAATAK 190

RESULT 3

US-09-987-107-17

; Sequence 17, Application US/09987107

; Patent No. US20020156007A1

; GENERAL INFORMATION:

; APPLICANT: GRAVERSEN, Jonas

; TITLE OF INVENTION: APOLIPOPROTEINS ANALOGUES

; FILE REFERENCE: GRAVERSENIA

; CURRENT APPLICATION NUMBER: US/09/987.107

; CURRENT FILING DATE: 2001-11-13

; PRIOR APPLICATION NUMBER: US 60/264,022

; PRIOR FILING DATE: 2001-01-26

; PRIOR APPLICATION NUMBER: DK PA2001 00057

; PRIOR FILING DATE: 2001-01-15

; PRIOR APPLICATION NUMBER: DK PA2000 01682

; PRIOR FILING DATE: 2000-11-10

; NUMBER OF SEQ ID NOS: 91

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 17

; LENGTH: 265

; TYPE: PRT

; ORGANISM: Bos Taurus

US-09-987-107-17

Query Match 6.1%; Score 117; DB 9; Length 265;

Best Local Similarity 23.2%; Pred. No. 0.057;

Matches 56; Conservative 34; Mismatches 71; Indels 80; Gaps 11;

Qy 46 HWQQTVPAAPNDLVRDF-----MEKLAEGQKAFGLTDYFTYKGLGSSGTQ-----GW 94

Db 20 HFQQDDPQSSWDVRVKDFATVYVEAKDSGR-----DYVAQFEASALGKQLNLKLLDNW 73

Qy 95 DTLSKTI-----DDMQKAFASGRIEGD----- 116

Db 74 DTLASTLSKVRQLGPTVQTFEWDNLEKETASLRQEMHKDLEEVKQVQPYLDEFQKKWHE 133

Qy 117 --ETFRRLMA-----FWEMPLDNMQRTWSSISPVPGDLLRNMPHDQVRSDVDRILSAPGL 169

Db 134 EVEIYRQKVAPLGEEFREGARQKQVQLQKLSPLAQEL-----RDRARAHVETL----- 182

Qy 170 GYTREEQARYQDLIRSLRYQ--SALNEYNQFGQGVKSLERMRAFLQGOAEKGAJESA 228

Db 183 ---RQOLAPYSDLLRQLRTARLEALKEGGSLAEYHAKASEQLKAL--GEKAKPV-LEDL 236

Qy 229 R 229

Db 237 R 237

RESULT 4

US-09-987-107-18

; Sequence 18, Application US/09987107

; Patent No. US20020156007A1

; GENERAL INFORMATION:

; APPLICANT: GRAVERSEN, Jonas

; TITLE OF INVENTION: APOLIPOPROTEINS ANALOGUES

; FILE REFERENCE: GRAVERSENIA

; CURRENT APPLICATION NUMBER: US/09/987.107

; CURRENT FILING DATE: 2001-11-13

; PRIOR APPLICATION NUMBER: US 60/264,022

; PRIOR FILING DATE: 2001-01-26

; PRIOR APPLICATION NUMBER: DK PA2001 00057

; PRIOR FILING DATE: 2001-01-15

; PRIOR APPLICATION NUMBER: DK PA2000 01682

; PRIOR FILING DATE: 2000-11-10

; NUMBER OF SEQ ID NOS: 91

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 18

; LENGTH: 265

; TYPE: PRT

; ORGANISM: Sus scrofa

US-09-987-107-18

Query Match 6.0%; Score 116; DB 9; Length 265;

Best Local Similarity 23.2%; Pred. No. 0.069;

Matches 55; Conservative 39; Mismatches 71; Indels 72; Gaps 12;

Qy 46 HWQQTVPAAPNDLVRDF-----MEKLAEGQKAFGLTDYFTYKGLG-----G 87

Db 20 HFQQDDPQSSWDVRVKDFATVYVDAIKDSGRDY--VAQFEASALGKHLNLKLLDNWDSUG 77

Qy 88 SSGT-----QGWDTL-----SKTIDMQKA-----FASGRLEGDT 118

Db 78 STFTKVRQLGVTQTFEWDNLEKETEARLQEMSKDLEEVKQVQPYLDDFQNKQOEEMET 137


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QY 260 VNAQMALKQBMSTWMDVGLGAMPLPTBSELTLTQDRLOESRGEGKQROEITL----- 313
Db 165 SPVAEEFDRMRTHVDSL-----RQLAPHSEQMRESLAQRLAEUKSNPTLNEYHTR 216

QY 314 -KRQVAALAGAGAPQAPQASQFSTRPAPAT--APAAASAAPKRSTT 355
Db 217 AKTHLTGKEKARPALE-DLRHSLMPMLETLTKTKAQSVIDKASET 260

RESULT 9
US-09-879-957-14
; Sequence 14, Application US/09879957
; Patent No. US20020034755A1
; GENERAL INVENTION:
; APPLICANT: HOFFMAN, Andrew B.
; KAY, Brian K.
; FOWLKES, Dana M.
; MCCONNELL, Stephen J.
; TITLE OF INVENTION: POLYPEPTIDES HAVING A FUNCTIONAL
; DOMAIN OF INTEREST AND METHODS OF IDENTIFYING AND
; USING SAME
; NUMBER OF SEQUENCES: 227
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas

```

COUNTRY: USA
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICANT: Patentin
FILING DATE: 13-Jun-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/630,915
FILING DATE: 03-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Misrock, S. Leslie
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 1101-174
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:

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;       PHEININ: 376 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-09-879-957-14

Query Match          5.5%; Score 105; DB 10; Length 546;
Best Local Similarity 19.8%; Pred.No. 1.4;
Matches      89; Conservative    67; Mismatches   159; Indels   134; Gaps     21


QY         . 1 VNDTANKTSDW-----LDIQRYKWEYWSELGRKTGLGLEKPANPWA----- 41
           ||| :|| |::|| ::| :|| ::|
Db        29 VNDVSEKEQRNGAKTVOGSGHQEHNIHKLRENVQE--HQTLKEKETLGPKASHGYGG 86

QY         42 -----GALDHWWT----VSAPANDLVRFDMFKLAEO-----GKAFFGLTD 79
           ||: |:| :| | :| | :| | :| | :| |
Db        87 KFGVEQDRMDRSavgHEYQSRLSKHCSDVDSVRGEGGFVGVMRDVDOSAVGFEYGKTE 146
```

Db 147 KHASQDYSSGGKYGQVQADRVDSKSAVGFDYQGGKTEKHESQKYSKGGKYGIDDKV 206
Qy 119 FRRLMAFWEMPLDNQRTWSSLSPPVGLLRNMPHQVDRSDVRLSAPGLGYTREEQAR 178
Db 207 DKSAGVF-----EYQG-----KTEKHESQKDYKGGKFGVQTDRODKCA 247
Qy 179 YODLIRLSYOSALNEY-NGFFGOLGVKSLERMAFLQQAEGKVAIESARTLYDAWVG 237
Db 248 LGWDHQEKLQLHESQKDYKGGKFGVQS-ERQ-----DSSAVGFD--- 288
Qy 238 CEEVYAEVSSADYAHIGHRLVNAQMAKQKRMSTWDEVL-----GAMPLPT----- 285
Db 289 -YKERLAKHEPODYAKGFGKYGKQKMDKNASTFEVWQVPSAYQKTVIEAVTSKT 347
Qy 286 ---RSELATL-QDRQESRGEK-----ROROEIETLKROVAALAGGAQAPQASQA 333
Db 348 SNIRANFENLAKEROEDRRKAEABRAQMAKERQEQEARKEQARAKQOTPPAS- 405
Qy 334 PSTRPAPATAPAA-----SAAPKRSTTTTR 358
Db 406 PSPQIEDRPSPPIYEDAAPKAEPSYR 434

RESULT 10

US-09-974-298-41
; Sequence 41, Application US/09974298
; Patent No. US20020156263A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Hwei-Mei
; TITLE OF INVENTION: GENES EXPRESSED IN BREAST CANCER
; FILE REFERENCE: PA-0037 P
; CURRENT APPLICATION NUMBER: US/09/974,298
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,331
; PRIOR FILING DATE: 2000-05-10
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 41
; LENGTH: 483
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020156263A1 3355973CD1
US-09-974-298-41

Query Match 5.4%; Score 103; DB 9; Length 483;
Best Local Similarity 20.8%; Pred. No. 1.7;
Matches 85; Conservative 59; Mismatches 154; Indels 110; Gaps 18;
Qy 11 WLDIORKYMET-WSELGR-----KTLGLEKTPANPWAGALDH 46
Db 111 FLEQONKMLETKWSLLQOQKTARSNDNMNFESYNNLRQLETGLQEKUKLAEIAGNM-- 168
Qy 47 WMQTVSPAAPNDLVRDFMEKLAEOGKAFGLTDYFTKGLGGSGTGQWDTLSKTTIDD--M 104
Db 169 -----QGLVEDFKNYEDEINKRTEMENEFV-----LIKKDVDEAYM 205
Qy 105 QKAFASGRIEG-DETFRLMAFWEMPLDNQRTWSSLSPPVGLLRNMPHQVDRD-SVDR 162
Db 206 NKVELESRLGLTDEINFLRQLYEIEIRLQSQISDTSVW-----LSMDNSRLDMD 258
Qy 163 ILSAPGLGYTREEOQARYODLIRRSLE-----YQSALNEYNGFFGOLG----- 204
Db 259 IIA-----EVKAQYEDIANRSRAEASMYQIKEYELQSLAGKHGDDLRRTKTEISEM 310
Qy 205 VKSLERMAFLQQAEGKVAIESARTLYDAWVGCCCEEVYAEVSSADYAHIGHRLVNAQM 264
Db 311 NNINISRLQAEIEGLKGORASLEAA--IAD-----AEORGELAIDKANAKLSELEA 358
Qy 265 AL---KQRMSTWDEV--LGAMPLPTRSELRLTQDRL--QESRGEKQROQIEITLKROV 317
Db 206 NKVELESRLGLTDEINFLRQLYEIEIRLQSQISDTSVW-----LSMDNSRLDMD 258
Qy 163 ILSAPGLGYTREEOQARYODLIRRSLE-----YQSALNEYNGFFGOLG----- 204
Db 259 IIA-----EVKAQYEDIANRSRAEASMYQIKEYELQSLAGKHGDDLRRTKTEISEM 310
Qy 205 VKSLERMAFLQQAEGKVAIESARTLYDAWVGCCCEEVYAEVSSADYAHIGHRLVNAQM 264
Db 311 NNINISRLQAEIEGLKGORASLEAA--IAD-----AEORGELAIDKANAKLSELEA 358
Qy 265 AL---KQRMSTWDEV--LGAMPLPTRSELRLTQDRL--QESRGEKQROQIEITLKROV 317

Db 359 ALQRAQDMARQLREYQELMNMVKLALDIEIATYRKLLGEESRLESQNMMSIHT--KTT 416
Qy 318 AALAGGAQAPQASQAPSTRPAPAT---APAASAAPKESSTTTRRTTK 362
Db 417 SGYAGGLSSAYGGLTSPGLSYSLGSSFGSGAGSSFSRTSSRAVVVK 464
RESULT 11
US-09-981-353-158
; Sequence 158, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 158
; LENGTH: 483
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 3355973CD1
US-09-981-353-158

Query Match 5.4%; Score 103; DB 9; Length 483;
Best Local Similarity 20.8%; Pred. No. 1.7;
Matches 85; Conservative 59; Mismatches 154; Indels 110; Gaps 18;
Qy 11 WLDIORKYMET-WSELGR-----KTLGLEKTPANPWAGALDH 46
Db 111 FLEQONKMLETKWSLLQOQKTARSNDNMNFESYNNLRQLETGLQEKUKLAEIAGNM-- 168
Qy 47 WMQTVSPAAPNDLVRDFMEKLAEOGKAFGLTDYFTKGLGGSGTGQWDTLSKTTIDD--M 104
Db 169 -----QGLVEDFKNYEDEINKRTEMENEFV-----LIKKDVDEAYM 205
Qy 105 QKAFASGRIEG-DETFRLMAFWEMPLDNQRTWSSLSPPVGLLRNMPHQVDRD-SVDR 162
Db 206 NKVELESRLGLTDEINFLRQLYEIEIRLQSQISDTSVW-----LSMDNSRLDMD 258
Qy 163 ILSAPGLGYTREEOQARYODLIRRSLE-----YQSALNEYNGFFGOLG----- 204
Db 259 IIA-----EVKAQYEDIANRSRAEASMYQIKEYELQSLAGKHGDDLRRTKTEISEM 310
Qy 205 VKSLERMAFLQQAEGKVAIESARTLYDAWVGCCCEEVYAEVSSADYAHIGHRLVNAQM 264
Db 311 NNINISRLQAEIEGLKGORASLEAA--IAD-----AEORGELAIDKANAKLSELEA 358
Qy 265 AL---KQRMSTWDEV--LGAMPLPTRSELRLTQDRL--QESRGEKQROQIEITLKROV 317
Db 359 ALQRAQDMARQLREYQELMNMVKLALDIEIATYRKLLGEESRLESQNMMSIHT--KTT 416
Qy 318 AALAGGAQAPQASQAPSTRPAPAT---APAASAAPKESSTTTRRTTK 362
Db 417 SGYAGGLSSAYGGLTSPGLSYSLGSSFGSGAGSSFSRTSSRAVVVK 464

RESULT 12

US-09-919-497-79
; Sequence 79, Application US/09919497
; Patent No. US20020106662A1
; GENERAL INFORMATION:
; APPLICANT: Mutter, George L.
; TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER
; FILE REFERENCE: B0801/7225
; CURRENT APPLICATION NUMBER: US/09/919,497
; CURRENT FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 60/221,735

```
; PRIOR FILING DATE: 2000-07-31
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 79
; LENGTH: 483
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-497-79

Query Match          5.4%; Score 103; DB 10; Length 483;
Best Local Similarity 20.8%; Pred. No. 1.7; 154; Indels 110; Gaps 18;
Matches 85; Conservative 59; Mismatches 59; Mismatches 114; Indels 107; Gaps 17;

Qy 11 WLDIQRYWET--WSELGR-----KTLGLEKTPANPWAGALDH 46
Db 111 FLEQNKMLETKWSLLOQKTARSNDWNMFESVINLRRLQLETLGQEKLEAELGNM-- 168

Qy 47 WQVTPAAPNDLVRDFMEKLAEOQKAFGLTDYTKLGGSSGTQGWDTLSKTTDD--M 104
Db 169 -----QGLVEDFKNKYEDEINKRTMENEFV-----LIKQDVDEAYM 205

Qy 105 OKAPASGRIEG--DETFRRLMAFWEMPLDNWQRTMSLSVPVGDLLRNMPHQVDRD--SVDR 162
Db 206 NKVELESRLUGLTDINFLRQYEEIRELQSIQSDTSV-----LSMONSRSLDMS 258

Qy 163 ILSAPGLGYTREEQARYODLIRRSLE-----YQSALNEYNGFFGQLG----- 204
Db 259 IIA-----EVKAQYEDIANRSRAEAESMYQIKYEELQSLAGKHGDDLRRTKTEISEM 310

Qy 205 VKSLERMAFLQOQAEKGVAIASATLVDWVGCCEEVYAEVSSADYAHIGHRLVNAQM 264
Db 311 NNNISRLQAEIEGLKGRASLEAA--IAD-----AEQGEIATKDANAKLSELEA 358

Qy 265 AL---KORMSTMVDEV--LGAMPLPTRSLRLODRL--QESRGGKQROQRIETLKRQV 317
Db 359 ALQRAKQDWARQLREYQELMNVKALDIEIATYRKLLEGEESRLSGNQNSIHT--KTT 416

Qy 318 AALAGGAQPAQASQPSRTPAPAT---APAASAAAPKRSSTTTTTRTKK 362
Db 417 SGVAGGLSSAYGGLTSPGLSYSLGSGFSGAGSGSSFSRTSSRAVVVK 464

RESULT 13
US-09-815-242-11830
; Sequence 11830, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zykkind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA 011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308

; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11830
; LENGTH: 681
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-815-242-11830

Query Match          5.3%; Score 102.5; DB 10; Length 681;
Best Local Similarity 19.9%; Pred. No. 2.9; 114; Indels 107; Gaps 17;
Matches 71; Conservative 64; Mismatches 114; Indels 107; Gaps 17;

Qy 88 SSGTQGWDTLSKTTDDMKAFASGRIE-----GDETFRRLMAFWEMPLDNWQRTM 137
Db 96 ASRTKVEDT-RELLDNVQVSPTRGRYKYVYLIDEVHMLSSHSFNALLKTLERPPPHVKFLL 154

Qy 138 SSLSP--VPGDL-----LRNMPHDQVRSVDRILSAPGLGYTREEQARYQDILRR-- 185
Db 155 ATTPQKLPVTILSRCLQFSLKNMPPPERVVEHLTHVLGAENVPF--EDDALW--LLGRAA 210

Qy 186 --SLEYQSALNEYNGFFGQLGVKSLE-----RMRAFLOGQAEKGVAIESA 228
Db 211 DCSMRDAMSLTDQAIAPGEGKVLADVRAMLGTDHGGQVYGVLOALLEGDAR--ALLEAV 268

Qy 229 RTLYDAMVGCCEEVYAEVSSADYAHIGHRLVNA--QMAKQRMSTMVDE----- 276
Db 269 RHL-----AEQ--GPDNGGVLAELINLHRLVIAIAQALPEADINCGODRERVLA 314

Qy 277 -----VLGAMPLPTRSE-----LRTLQDRLOESRGGKQROREI 310
Db 315 LAQALPAEDVOFYQMGILIGRRDLPLAPDPRSFGFEMVILLRMLAFRPADADGVPTPLKDL 374

Qy 311 ETLKRQV---AALAGGAQPAQASQAPS---TRP--APATAPASAAAPKRSSTTTT 357
Db 375 GISKATTDPANSPVAGASAPVATVAPVVAAPVEAPAAPPAAPPAAPVAREAR 430

RESULT 14
US-09-779-307-17
; Sequence 17, Application US/09779307
; Patent No. US20020137675A1
; GENERAL INFORMATION:
; APPLICANT: Taupier Jr., Raymond
; APPLICANT: Majumder, Kumud
; APPLICANT: Vernet, Corine
; APPLICANT: Prayaga, Sudhirdas
; TITLE OF INVENTION: Polynucleotides and Polypeptides Encoded Thereby
; FILE REFERENCE: 15966-662 US
; CURRENT APPLICATION NUMBER: US/09/779,307
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/180,880
; PRIOR FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: 60/181,044
; PRIOR FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: 60/181,656
; PRIOR FILING DATE: 2000-02-10
; PRIOR APPLICATION NUMBER: 60/182,795
; PRIOR FILING DATE: 2000-02-15
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 482
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-779-307-17

Query Match          5.3%; Score 102; DB 10; Length 482;
Best Local Similarity 20.8%; Pred. No. 2;
Matches 85; Conservative 58; Mismatches 155; Indels 110; Gaps 18;

Qy 11 WLDIQRYWET--WSELGR-----KTLGLEKTPANPWAGALDH 46
Db 111 FLEQNKMLETKWSLLOQKTARSNDWNMFESVINLRRLQLETLGQEKLEAELGNM-- 168
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Db 110 FLEQNKMLTKWSLLQOQKTARSNNMNFESYINNLRQLETLGOEKLKLAELGNM-- 167
Qy 47 WQOTVSPAAPNDLVDFMEKLAEOQKAFGLTDYTKGLGGSGTGQWDTLSKTI--M 104
Db 168 -----OGLVDFKNKYDEINKRTEMENEFV-----LIKQDVDEAYM 204
Qy 105 OKAFASGRIEG-DETFRRIMAFWEMPLDNWORTMSSLSVPVPGDLLRNMPHQVDR-SVDR 162
Db 205 NKVELESLEGLTDEINFRLQRYEEIRELQSIQSDTSV-----LSMNSRSLDMS 257
Qy 163 ILSAPGLGYTREOQARYODLIRRSLE-----YQSALNEYNGFFGQLG----- 204
Db 258 IIA-----EVKAQYEDIANRSRAEASMYQIKYEELQSLAGKHGDDLRRTKTEISEM 309
Qy 205 VKSLERMAFLQOQAEKGVAIESARTLYDAMVGCCEVYAEVSSADYAHIGHRLVNAQM 264
Db 310 NRNISRLQAEIEGLKGRASLEAA-IAD-----AEQRGELAIKADANAKLSELEA 357
Qy 265 AL---KORMSTWDEV--LGAMPLTRSELRLTLDRL--QESRGEKQRQOEIETLKQV 317
Db 358 ALQRAKQDMARQLREYQELMNVKALDIEIATYRKLLGEESRLESQMGONMSIHT--KTT 415
Qy 318 AALAGGAQAPQASQPSRPAAPAT---APAASAAPKRSTTTTRRTTK 362
Db 416 GGYAGGLSSAYGGLTSPGLSYSLGSGSGAGSSFSRTSSRAVVVK 463

RESULT 15

US-09-987-107-19
; Sequence 19, Application US/09987107
; Patent No. US20020156007A1
; GENERAL INFORMATION:
; APPLICANT: GRAVERSEN, Jonas
; APPLICANT: MOESTRUP, Soren
; TITLE OF INVENTION: APOLIPOPROTEINS ANALOGUES
; FILE REFERENCE: GRAVERSENIA
; CURRENT APPLICATION NUMBER: US/09/987,107
; CURRENT FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/264,022
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: DK PA2001 00057
; PRIOR FILING DATE: 2001-01-15
; PRIOR APPLICATION NUMBER: DK PA2000 01682
; PRIOR FILING DATE: 2000-11-10
; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-987-107-19

Query Match 5.3%; Score 101; DB 9; Length 266;
Best Local Similarity 20.2%; Pred. No. 1.1;
Matches 50; Conservative 28; Mismatches 61; Indels 108; Gaps 10;
Qy 46 HWQOTVSPAAPNDLVDR-----FMEKLAEOQKAFGLTDYTKGLGGSGCTQ-----GW 94
Db 20 HPMQDEPQSPWDRVKDLATVYVDAVKDSGR-----DYVAQFEASALGKQLNLKLLDNW 73
Qy 95 DTLSKTI-----DDMOKAFAS 110
Db 74 DSLSTVTKLREQIGVTFQEFWDNLEKETEVLREQMSKDLSEVVKQVPYLDLDFQKKWQ- 132
Qy 111 GRIEGDETFRLMAFWEMPL-----DNWORTMSSLSVPVPGDLLRNMPHQVDRSDVD 161
Db 133 ---EVELYRQKVA---PLGSELREGARQKLQELQEKUSPLAEEL-----RDRARTHVD 180
Qy 162 RILSAPGLGYTREOQARYODLIRRSI-----EYQSALNEYNGFFGQLGV 205
Db 181 AL-----RAQLAPYSDDLRLERLARLEALKKCGGASLAELYHARASEQLSALGEKAR 231
Qy 206 KSLERNR 212

Db 232 PALEDLR 238
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Job time : 43.0318 secs

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OM protein - protein search, using sw model

Run on: March 23, 2003, 05:51:37 ; Search time 32.5442 Seconds
(without alignments)
322.761 Million cell updates/sec

Title: US-09-779-427-3
Perfect score: 1894
Sequence: 1 VSPFPDIRPDKLTEAMLEY.....SGKAQGVTPAIGRWLNERG 357

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1884	100.0	357	3	US-08-809-286B-3
2	287.5	15.3	574	2	US-08-756-317-4
3	287.5	15.3	600	2	US-08-756-317-3
4	287.5	15.3	638	2	US-08-756-317-2
5	274	14.5	604	2	US-08-756-317-6
6	273.5	14.5	577	2	US-08-756-317-13
7	270.5	14.4	594	2	US-08-910-856-2
8	264.5	14.0	589	2	US-08-756-317-5
9	258	13.7	561	2	US-08-756-317-14
10	257	13.6	601	2	US-08-756-317-15
11	234.5	12.4	590	2	US-08-756-317-12
12	222.5	11.8	559	2	US-08-756-317-10
13	222.5	11.8	5215	4	US-09-105-537-2
14	221.5	11.8	559	2	US-09-052-339-1
15	221.5	11.8	559	4	US-09-385-742B-1
16	216.5	11.5	559	2	US-08-756-317-7
17	196.5	10.4	560	2	US-08-756-317-8
18	193.5	10.3	624	2	US-08-756-317-9
19	188.5	10.0	560	4	US-09-385-742B-6
20	176	9.3	560	2	US-08-756-317-11
21	129	6.8	251	4	US-09-345-469-4
22	104	5.5	299	4	US-09-134-001C-4414
23	102	5.4	262	2	US-08-602-359A-38
24	100	5.3	252	4	US-09-134-001C-5644
25	100	5.3	802	4	US-09-134-001C-3741
26	99.5	5.3	358	1	US-08-034-650-10
27	99.5	5.3	358	1	US-08-449-015-10

28	97	5.1	248	3	US-08-935-263-14	Sequence 14, Appl
29	97	5.1	248	4	US-09-594-185-14	Sequence 14, Appl
30	95.5	5.1	541	4	US-08-687-590-28	Sequence 28, Appl
31	95.5	5.1	541	4	US-09-311-311C-25	Sequence 25, Appl
32	94.5	5.0	532	4	US-09-071-035-88	Sequence 88, Appl
33	94.5	5.0	553	4	US-09-071-035-86	Sequence 86, Appl
34	93.5	5.0	1257	1	US-08-049-783-2	Sequence 2, Appl
35	93.5	5.0	1257	1	US-08-158-232-6	Sequence 6, Appl
36	93.5	5.0	1257	1	US-08-304-626-6	Sequence 6, Appl
37	93.5	5.0	1257	1	US-08-316-301A-6	Sequence 6, Appl
38	93.5	5.0	1257	2	US-08-611-928-6	Sequence 6, Appl
39	93.5	5.0	1257	3	US-09-173-891-6	Sequence 6, Appl
40	93.5	5.0	1257	4	US-09-076-137-6	Sequence 6, Appl
41	93.5	5.0	1257	5	PCT-US92-03624-6	Sequence 6, Appl
42	91.5	4.9	297	2	US-08-602-359A-37	Sequence 37, Appl
43	91.5	4.9	796	4	US-08-868-699A-2	Sequence 2, Appl
44	91.5	4.9	796	4	US-09-757-014-2	Sequence 2, Appl
45	91	4.8	1802	4	US-09-322-478-18	Sequence 18, Appl

ALIGNMENTS

RESULT 1

US-08-809-286B-3
; Sequence 3, Application US/08809286B
; Patent No. 6011144
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Process for manufacturing polyhydroxylic
; TITLE OF INVENTION: fatty acids, and recombinant bacterial strains for
; TITLE OF INVENTION: carrying out the process
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/809,286B
; FILING DATE: 3-JUL-97
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Patricia A. Kammerer
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: MOBT-152 (28-21(15115)A)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1400
; TELEFAX: 713-787-1440
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 357 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-809-286B-3

Query Match 100.0%; Score 1884; DB 3; Length 357;
Best Local Similarity 100.0%; Pred. No. 9.8e-198;
Matches 357; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 VSPFPDIRPDKLTEAMLEYSRKLGEGMONLLKADQIDTGTTPKDVVHREDKLVLYR 60
Db 1 VSPFPDIRPDKLTEAMLEYSRKLGEGMONLLKADQIDTGTTPKDVVHREDKLVLYR 60


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Query Match 15.3%; Score 287.5; DB 2; Length 600;
Best Local Similarity 25.9%; Pred. No. 1.7e-22;
Matches 97; Conservative 53; Mismatches 171; Indels 53; Gaps 10;

QY 8 IRPDKLTLEMYSRKLGEGMQLLKADQIDTGVTPKDVVHRED--KLVLYRYPQAQVA 65
DB 210 LRPTMSDETAFAEVRGL-----AMTPGVVFQNALMQLILY---APTTPK 251
QY 66 TQTIPLLIYALVNRPMYTDIQEDRSTIKGLLATQDVYLIDWGYPDQADRALTDYYIN 125
DB 252 VHKRPLLVPPWINKFYILDTEKNSLIKVMYDQGFVFIWVNPDAGLAETRFEDYLS 311
QY 126 GYIDRCVDYLRETHGVDQVNLGICOGGAFSLCYTAL----HSEKVKNLVMTVTPVDFOT 181
DB 312 QGPLAAMEVMTETIGORALGLVGYCIGGTLTACTLAVLAARDHRVKSATLTLTLVDFSE 371
QY 182 PGNLLSAMVQNVVDVLAVDTM---GNIPGELLNWTFLSLKPFSLTGQKYVNMVLDLDDDED 238
DB 372 PGE-LGVFIDPPLLDALDDQARDGGLDGLLSMAFNMLRNDLWISVFNNYLL----G 426
QY 239 KVNFLRMEKWIIFSDQAGETTFQIKDFYQRNGFIN--GGVLIGDQEVLDLRNIRCPVLN 297
DB 427 KTPAAFDLLYMGDSTRMPAAMQRYLYREMYQKNKLVQPGGLTVLGHALDLRLRIRTPVYL 486
QY 298 IYPMQDHLVPPDASKALAGLTSSDYTELAFPGCHIGIYVSKAQ----- 342
DB 487 LSARDHIAPTWTSTFKATGLYGGPLRVFLA--GSGHIAGVINPPAKARYGYWTNADTSLEA 545
QY 343 ----EGVTPAIGRW 352
DB 546 ESWLEGATPHGGSW 559

RESULT 4
US-08-756-317-2
; Sequence 2, Application US/08756317
; Patent No. 5849894
; GENERAL INFORMATION:
; APPLICANT: Clemente, Thomas E.
; APPLICANT: Kishore, Ganesh M.
; APPLICANT: Mitsky, Timothy A.
; APPLICANT: Stark, David M.
; TITLE OF INVENTION: Improved Rhodospirillum Rubrum
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/756,317
; FILING DATE: 25-NOV-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/007,693
; FILING DATE: 29-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Patterson, Melinda L.
; REGISTRATION NUMBER: 33,062
; REFERENCE/DOCKET NUMBER: MOST:008
; TELEPHONE: (713) 787-1400
; TELEFAX: (713) 787-1440
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
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; LENGTH: 638 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-08-756-317-2

Query Match 15.3%; Score 287.5; DB 2; Length 638;
Best Local Similarity 25.9%; Pred. No. 1.8e-22;
Matches 97; Conservative 53; Mismatches 171; Indels 53; Gaps 10;

QY 8 IRPDKLTLEMYSRKLGEGMQLLKADQIDTGVTPKDVVHRED--KLVLYRYPQAQVA 65
DB 248 LRPTMSDETAFAEVRGL-----AMTPGVVFQNALMQLILY---APTTPK 289
QY 66 TQTIPLLIYALVNRPMYTDIQEDRSTIKGLLATQDVYLIDWGYPDQADRALTDYYIN 125
DB 250 VHKRPLLVPPWINKFYILDTEKNSLIKVMYDQGFVFIWVNPDAGLAETRFEDYLS 349
QY 126 GYIDRCVDYLRETHGVDQVNLGICOGGAFSLCYTAL----HSEKVKNLVMTVTPVDFOT 181
DB 350 QGPLAAMEVMTETIGORALGLVGYCIGGTLTACTLAVLAARDHRVKSATLTLTLVDFSE 409
QY 182 PGNLLSAMVQNVVDVLAVDTM---GNIPGELLNWTFLSLKPFSLTGQKYVNMVLDLDDDED 238
DB 410 PGE-LGVFIDPPLLDALDDQARDGGLDGLLSMAFNMLRNDLWISVFNNYLL----G 464
QY 239 KVNFLRMEKWIIFSDQAGETTFQIKDFYQRNGFIN--GGVLIGDQEVLDLRNIRCPVLN 297
DB 465 KTPAAFDLLYMGDSTRMPAAMQRYLYREMYQKNKLVQPGGLTVLGHALDLRLRIRTPVYL 524
QY 298 IYPMQDHLVPPDASKALAGLTSSDYTELAFPGCHIGIYVSKAQ----- 342
DB 525 LSARDHIAPTWTSTFKATGLYGGPLRVFLA--GSGHIAGVINPPAKARYGYWTNADTSLEA 583
QY 343 ----EGVTPAIGRW 352
DB 584 ESWLEGATPHGGSW 597

RESULT 5
US-08-756-317-6
; Sequence 6, Application US/08756317
; Patent No. 5849894
; GENERAL INFORMATION:
; APPLICANT: Clemente, Thomas E.
; APPLICANT: Kishore, Ganesh M.
; APPLICANT: Mitsky, Timothy A.
; APPLICANT: Stark, David M.
; TITLE OF INVENTION: Improved Rhodospirillum Rubrum
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/756,317
; FILING DATE: 25-NOV-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/007,693
; FILING DATE: 29-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Patterson, Melinda L.
; REGISTRATION NUMBER: 33,062
```

```

; ; REFERENCE/DOCKET NUMBER: M08T:008
; ;
; ; TELECOMMUNICATION INFORMATION:
; ;
; ; TELEPHONE: (713) 787-1400
; ;
; ; TELEFAX: (713) 787-1440
; ;
; ; INFORMATION FOR SEQ ID NO: 6:
; ; SEQUENCE CHARACTERISTICS:
; ; LENGTH: 604 amino acids
; ; TYPE: amino acid
; ; STRANDEDNESS:
; ; TOPOLOGY: linear
; ; US-08-756-317-6

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Query Match 14.5%; Score 274; DB 2; Length 604;
Best Local Similarity 25.0%; Pred. No. 5.1e-21;
Matches 92; Conservative 63; Mismatches 163; Indels 50; Gaps 13;

Qy	16	EMLEYGRKLGEGMONLLKADQI-----DTGVTPKDVVHREKLVLYVRRPAQVATQTI	69
Db	202	KMLQDLIEAGGGQLRVQRTDLSAFTFGKDVAVTPGGEVIFRNDLMELIQY-----APTTEV	257
Qy	70	---PLIVYVALNVRPMYTDIQEDRSTIKGLLATQGVYLLDMGYPDQADRALTLDDYING	126
Db	258	LKRPLLIIVPWINKFYILDLPNPKSLIGMWVSOGITFVVISWNPDERHRDKDFESYMR	317
Qy	127	YIDRCVDYLRETHGVQVNLIGICOGG--AFSLCY-TALHSEKVKNLVMTVTPVPDFQTP	182
Db	318	GIETAIMIGVATGETDVAAGYCVGGTLLAVTLAYQAATGNRRIKSAFFLTQVDFTHA	377
Qy	183	GNLLSAWQNVVDVLADVTM---GNTPGELLNMTFUSLPFSLTGQKYVMVDLLDDEDK	239
Db	378	GD-LKVFADGEQIKAIEERMAEHYLEGARMANAFNMLRPNDLINSYVN-----426	
Qy	240	VKNFLR-----MEKWIFDSPDQAGEITFQPIKDFYQNRGFIINGVGLIGDOEVDLRNI	291
Db	427	--NYVRGKAPAAFDLLYNADATMPAAHNSFYLRNCYLNTLAKQWVLGNVRJDLKKV	484
Qy	292	RCPLVNIYPMQDHLVPPDASKALAGLTSSEDYTELAPFG-GHIGIYVS---GKAQEGVT-	346
Db	485	KVPVFNLATREDHIAP--ALSVEFGSAKGGKVDYVLACSGHLAGVVAPEGPKAKYGPFT	542
Qy	347	--PAIGRW	352
Db	543	GGPARGRF	550

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RESULT 6
US-08-756-317-13
,, Sequence 13, Application US/08756317
,, Patent No 5849894
,,
,, GENERAL INFORMATION:
,, APPLICANT: Clemente, Thomas E.
,, APPLICANT: Kishore, Ganesh M.
,, APPLICANT: Mitsky, Timothy A.
,, APPLICANT: Stark, David M.
,,
,, TITLE OF INVENTION: Improved photo
,, TITLE OF INVENTION: Poly-B-Hydro
,, NUMBER OF SEQUENCES: 15
,, CORRESPONDENCE ADDRESS:
,,
,, ADDRESSEE: Arnold, White & Dur
,, STREET: P.O. Box 4433
,, CITY: Houston
,, STATE: TX
,, COUNTRY: USA
,, ZIP: 77210-4433
,,
,, COMPUTER READABLE FORM:
,, MEDIUM TYPE: Floppy disk
,, COMPUTER: IBM PC compatible
,, OPERATING SYSTEM: PC-DOS/MS-DOS
,, SOFTWARE: PatentIn Release #1
,, CURRENT APPLICATION DATA:
,, APPLICATION NUMBER: US/08/756,
,, FILING DATE: 25-NOV-1996
,, CLASSIFICATION: 536

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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/007,693
FILING DATE: 29-NOV-1995
ATTORNEY/AGENT INFORMATION:
NAME: Patterson, Melinda L.
REGISTRATION NUMBER: 33,062
REFERENCE/DOCKET NUMBER: MOBT:008
TELECOMMUNICATION INFORMATION:
TELEPHONE: (713) 787-1400
TELEFAX: (713) 787-1440
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 577 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-756-317-13

Query Match	14.5%;	Score 273.5;	DB 2;	Length 577;
Best Local Similarity	23.3%;	Pred. No. 5.3e-21;		
Matches	93;	Conservative 68;	Mismatches 167;	Indels 71;
Gaps	14;			

QY	6	IDIRPKLTEEMLEYSKRGEGMNL-----LKADQIDT-----GVTPKDV	46
DB	153	ITNPQLYRETAVSSGANLVKGMQLAEDIAAGRGELRLRQTDTSPAIGENTAITPKV	212
QY	47	VHREDKLVLRYRRPAQVATQTI---PLLIVYALVNRPYMTDIOEDRSTIKGLLATQDV	103
DB	213	IAQNDVCQVLQY---EASTETVLKRPLLICPPWINKFYVLDLNPESFKIWAVDGQTV	268
QY	104	YLIDWGYPDQADRALLTDDYINGYIDRCVDYLRBETHCGDVNLLGTCGAFSLCYTALH	163
DB	269	FVISWNPDHSHAKOWEAYAREGIFALDIIIEQATGEREVNSIGYCVGGLTAALUALH	328
QY	164	S-----EKKNLVMTVPDVFQTPGNLLSAMQVNDV---DLAVDTMGNIPGELLNMTFLS	216
DB	329	AABGDERIRSATLFTTQVDPTHAGD-LKVFVDDQDTHLEANMSATGYLGSKWASAFNM	387
QY	217	LKPFSLTGQKYVNVDLLDDEDKVKQFLRMEK-----WIFSDPQAGETTRQFTKDF	268
DB	388	LRASELIWPYFVN-----NYLKGQDPLPDLLYWNNSDSTRMPAANHSFYLRNC	435
QY	269	YQRNGFINGGVLIGDQEVDLNRNIRCPVLNIYPMODHLVPPDASKALAGLTSSSEDYTELAF	328
DB	436	YLENRLSRGEMMLAGRVSLGDVKIPIYNTATKDHIAP--AKSVFLGSSSGFGKVTFVL	493
QY	329	PG-CHI-GI-----YVSGKAQEGVTPAIGRWLNE	355
DB	494	SGSGHITAGVNVPPARKYQYWTGAPKG---DIETWMKG	529

RESULT 7
US-08-910-856-2
; Sequence 2, Application US/08910856
; Patent No. 5981257
; GENERAL INFORMATION:
; APPLICANT: FUKUI, TOSHIAKI
; APPLICANT: DOI, YOSHIHARU
; TITLE OF INVENTION: POLYESTER SYNTHASE GENE AND PROCESS
; TITLE OF INVENTION: FOR PRODUCING POLYESTER
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FISH & RICHARDSON P.C.
; STREET: 4225 EXECUTIVE SQUARE, SUITE 1400
; CITY: LA JOLLA
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0. Version #1.30 (EPO)

;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/910.856
;; FILING DATE: 13-AUG-1997
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: JP 214509/1996
;; FILING DATE: 14-AUG-1996
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: JP 199879/1997
;; FILING DATE: 25-JUL-1997
;; ATTORNEY/AGENT INFORMATION:
;; NAME: HAILE, LISA A.
;; REGISTRATION NUMBER: 38,347
;; REFERENCE/DOCKET NUMBER: 07898/016001
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 619-678-5070
;; TELEFAX: 619-678-5099
;; INFORMATION FOR SEQ ID NO: 2:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 594 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-08-910-856-2

Query Match 14.4%; Score 270.5; DB 2; Length 594;
Best Local Similarity 23.9%; Pred. No. 1.2e-20;
Matches 104; Conservative 57; Mismatches 163; Indels 111; Gaps 13;

Qy 10 PKLTTEMLEYRKLGEGM-----QNLK-----ADQ 36
Db 133 POKSERLRFFTRQYNAMAPSNFLATNPPELLKLTLESQGNLVRGLALLAEDLERSADQ 192
Qy 37 I-----DTGVTPKDVVHREDKLVLYRRPAQVATOTIPLLIYVVALVNRPY 82
Db 193 LNIURTDESAFELGRDLALTGRVQVORTELYELIQSPPTVTKT-PVLIYVPPFINKY 251
Qy 83 MTDIQEDSTIKGLLATGDVYLIQWGPQDQADRALTLDDYINGVIDRCVYLRETHGVD 142
Db 252 INDMRPQNSLAWLAQGTQVFMISWRNPGVAQAQIDLDYVVDGVIAALDGVAAATGER 311
Qy 143 QYNLIGICOGG-AFSLCYTAL-----HSEKVNLTVMTPVDFQTPGNL-----LSA 188
Db 312 EVHGICGICGTALSAMGLAARQKQVRTATFTLLDPSQCGELGIFHEPIIAAL 371
Qy 189 WQNVQVDVLDVMTGNIPCELLNWTFLSKPESLTCQKVVN-----MVDLLDDEDK 239
Db 372 EAQN-----BAKIMDGRQAVSFLURENSLYWNYIDSYLKGQSPVAFDLL----- 419
Qy 240 VRNFLRMEKWIQFSDPQAGETFRQIKDFYQYRNGFINGGVIGDQEDVLRNIRCPVLNIY 299
Db 420 -----HMNSDSINVAGKTHNSLLRLRYLENQVLKGLKIRNTRIDLKVKYTPVLLVS 471
Qy 300 PMQDHLVPPDASKALAGLTSSBDYTELAPPGHI-----GIYVSKAQE----- 343
Db 472 AVDDHIALWQGTWQGMKLPFGGQRFLLA-ESGHIAGIINPPAANKYGFWHNGAEAESPS 530
Qy 344 ---GVTPAIGRWLNE 355
Db 531 WLAGATHQGGSWPE 545

RESULT 8

US-08-756-317-5
; Sequence 5, Application US/08756317
; Patent No. 5849894
; GENERAL INFORMATION:
; APPLICANT: Clemente, Thomas E.
; APPLICANT: Kishore, Ganesh M.
; APPLICANT: Mitsky, Timothy A.
; APPLICANT: Stark, David M.
; TITLE OF INVENTION: Improved Rhodospirillum Rubrum

;; TITLE OF INVENTION: Poly-B-Hydroxyalkanoate Synthase
;; NUMBER OF SEQUENCES: 15
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Arnold, White & Durkee
;; STREET: P.O. Box 4433
;; CITY: Houston
;; STATE: TX
;; COUNTRY: USA
;; ZIP: 77210-4433
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patentin Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/756.317
;; FILING DATE: 25-NOV-1996
;; CLASSIFICATION: 536
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 60/007,693
;; FILING DATE: 29-NOV-1995
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Patterson, Melinda L.
;; REGISTRATION NUMBER: 33,062
;; REFERENCE/DOCKET NUMBER: MOBT-008
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (713) 787-1400
;; TELEFAX: (713) 787-1440
;; INFORMATION FOR SEQ ID NO: 5:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 589 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
US-08-756-317-5

Query Match 14.0%; Score 264.5; DB 2; Length 589;
Best Local Similarity 26.3%; Pred. No. 5.3e-20;
Matches 97; Conservative 58; Mismatches 157; Indels 57; Gaps 14;

Qy 24 LGEQNQLL-----KADQID-----TCVTPKDVVHREDKLVLYRRPAQVATOT 68
Db 179 LRAGVRNMEDLTRGKISQTDSEAFEGVRNVAVTEGAVFENEFQLQY-KPLTDKVHA 237
Qy 69 IPLIIVYALVNRPMYTDIQEDRSTIKGLLATQDQVYLIQWGPQDQADRALTLDDYINGYI 128
Db 238 RPLLMVPCINKYIYLDLQPESSLVHRVVEQHTVFLVSWRNPDMASMAGSTWDDYIEHAA 297
Qy 129 DRCVDYLRETHGVQDVNLLGTCGGAF---SLCYTALHSEKVNLTVMTP-VDFQTPGN 184
Db 298 IRAIEVARDISQDKINVLGFCVGGTIVSTALAVLAARGEHPAASVTLLTLLDFADTG- 356
Qy 185 LLSAWQNVQVDVLDVMTGNIPG-----ELLNWTFLSKPESLTCQKVVNVDLLD 235
Db 357 ILDFEVDSEGHVOLREATLGGGAGAPCALLRGLLEAN-TFSFLRPNDLV-WNVV----- 407
Qy 236 DEDKVNFLR-----MEKWIQFSDPQAGETFRQIKDFYQYRNGF-INGGVILGDOEV 286
Db 408 ----VDNVLKNTVPVFPDILLFWNGDATNLPGPWYCWYLRHTYLNELKVPGLKTVCGVPV 463
Qy 287 DLNRIRCPVLNIYPMQDHLVPPDASKALAGLTSSBDYTELAPPGHI GIYVSKAQE GVT 346
Db 464 DLASIDVPTIYVGSREDHIVPWTAAAYASTALLAN---KLRFVLGASG-HIAGVINPPAK 518
Qy 347 PAIGRWLNE 355
Db 519 NKRSHTND 527

RESULT 9

US-08-756-317-14
; Sequence 14, Application US/08756317
; Patent No. 5849894

;; GENERAL INFORMATION:
;; APPLICANT: Clemente, Thomas E.
;; APPLICANT: Kishore, Ganesh M.
;; APPLICANT: Mitsky, Timothy A.
;; APPLICANT: Stark, David M.
;; TITLE OF INVENTION: Improved Rhodospirillum Rubrum
;; TITLE OF INVENTION: Poly-B-Hydroxyalkanoate Synthase
;; NUMBER OF SEQUENCES: 15
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Arnold, White & Durkee
;; STREET: P.O. Box 4433
;; CITY: Houston
;; STATE: TX
;; COUNTRY: USA
;; ZIP: 77210-4433
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/756.317
;; FILING DATE: 25-NOV-1996
;; CLASSIFICATION: 536
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 60/007.693
;; FILING DATE: 29-NOV-1995
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Patterson, Melinda L.
;; REGISTRATION NUMBER: 33,062
;; REFERENCE/DOCKET NUMBER: MOBT:008
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (713) 787-1400
;; TELEFAX: (713) 787-1440
;; INFORMATION FOR SEQ ID NO: 14:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 561 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
US-08-756-317-14

Query Match 13.7%; Score 258; DB 2; Length 561;
Best Local Similarity 23.0%; Pred. No. 2.5e-19;
Matches 85; Conservative 61; Mismatches 157; Indels 66; Gaps 9;
Qy 5 PIDIRPKLTEEMLEYSRKLGEQMQLLKADQIDTCVTPEKDVVHREDKLVLYRXPQV 64
Db 169 PLKVSDDAFT-----VGENL-----AATPGKVFRNDLIELIQY-APOTE 207
Qy 65 ATQTPLIIVYALVNRPYMTDIOEDRSTIKGLLATGQDVYLIDWGPQADRALTLDDYI 124
Db 208 QVHVPILAAPWINKYIILDLAPGSLAEAVQHGRTVFMISYRNPDESMEHITMDYY 267
Qy 125 NGYIDRCVDYLRETHGVQDVQNLGICQGGAFSLCVT-----ALHSEKVKNLVTMTVPDPFQ 180
Db 268 VDGIALTDVVEEITGSPKIEVLISLCGAMAAMAAAFAGDKRVSAFTMLNLLDYS 327
Qy 181 TPGNLLSAWQVVDVLDVDTMGNTIPGELLNWTFLSLKPF-----LTQKYVNMVLL 234
Db 328 QVGEL-----GLTDPATLDLVEFRMRQOGFLSGKEMAGSFDMI 366
Qy 235 DDEDKVQNF-----LRMEK-----WIFDSPQAGETFRFIDFYORNGFINGVLI 281
Db 367 RAKDLVFNVWVRWKKGEPAAPADILAWNEDSTSPAEHSHYLSLYGRNELAEGLYVL 426
Qy 282 GQOEVDLRNRCFVLNIYPMQDHLVPPDASKALAGLTSSSEDTYELAFPGGHIGIYVSGKA 341
Db 427 DQOPLNLHDIACTVYVGAINDHIVPWTSSYQAVNLLGG-DVRYVLTNGHVGAVNPPG 485
Qy 342 QGVTPAIG 350
Db 486 KRWFKAIG 494

RESULT 10
US-08-756-317-15
; Sequence 15 Application US/08756317
; Patent No. 5849894
; GENERAL INFORMATION:
; APPLICANT: Clemente, Thomas E.
; APPLICANT: Kishore, Ganesh M.
; APPLICANT: Mitsky, Timothy A.
; APPLICANT: Stark, David M.
; TITLE OF INVENTION: Improved Rhodospirillum Rubrum
; TITLE OF INVENTION: Poly-B-Hydroxyalkanoate Synthase
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/756.317
; FILING DATE: 25-NOV-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/007.693
; FILING DATE: 29-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Patterson, Melinda L.
; REGISTRATION NUMBER: 33,062
; REFERENCE/DOCKET NUMBER: MOBT:008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (713) 787-1400
; TELEFAX: (713) 787-1440
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 601 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-08-756-317-15

Query Match 13.6%; Score 257; DB 2; Length 601;
Best Local Similarity 24.1%; Pred. No. 3.6e-19;
Matches 99; Conservative 69; Mismatches 162; Indels 80; Gaps 16;
Qy 10 PKLTEEMLEYSRKLGEQMQLLKADQIDTC-----VTPKDVHRE 50
Db 177 PDALERATDGSLSVQGLENLVRDIEANNGLLVLTADPEAFVQGNLATTEGVSVYRN 236
Qy 51 DKLVLYRXPQAVATQIPULLIVYALVNRPYMTDIOEDRSTIKGLLATGQDVYLIDWGY 110
Db 237 RMFELIQKPTTETHET-PLLIFFPWINKFYILDLPQNSLLKWLVDQGTFTVVSWN 295
Qy 111 PQADRALTLDDYI-NGYIDRCVDYLRETHGVQDVQNLGICQGGAFSLCVTALHSEK--- 166
Db 296 FDKSVAGIGMDYIREGYM-RAMAEVRSITRQKQINAVGYCIAGT-TLTLTLAHLQAGD 353
Qy 167 --VKNLVMTVTPVDFQTPGN-----LLSAWQVVDVLDVDTMGNTIPGELLNWTFLSLKPF 220
Db 354 FSVRSATFTTLTDFSDPEGVGVFLNDDFVDGIERQVAVD-----GILDKTFMS-RTF 405
Qy 221 SLTGQKYVNMVLDLDEDEKVKNFRLMEK-----WIFDSPQAGETFRFIDFYORN 272
Db 406 S-----YLRSDNLI-YQPAIKSYMGEAPPADLLYWNWGDGTNLPQAQMAVEYLRGLCQD 459
Qy 273 GFINGVLIGDQEVLDLRNRCFVLNIYPMQDHLVPPDASKALAGLTSSSEDTYELAFPGGH 332

Db 460 RLAGTFFVLGSPVGLKDVTLVPCALACTDTHIAWKSFNFGSGTDTKTFILSQSH 519
Qy 333 I-----GIYVS-GKA-----OEGVT-----PAIGRWLNER 356
Db 520 VAGIVPPSRNKYGHVYNEGPGTPEFREGAEFAGHAGSWPRGAWLAER 569

RESULT 11
US-08-756-317-12
; Sequence 12, Application US/08756317
; Patent No. 5849894
; GENERAL INFORMATION:
; APPLICANT: Clemente, Thomas E.
; APPLICANT: Kishore, Ganesh M.
; APPLICANT: Mitsky, Timothy A.
; APPLICANT: Stark, David M.
; TITLE OF INVENTION: Improved Rhodospirillum Rubrum
; TITLE OF INVENTION: Poly-B-Hydroxyalkanoate Synthase
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/756.317
; FILING DATE: 25-NOV-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/007,693
; FILING DATE: 29-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Patterson, Melinda L.
; REGISTRATION NUMBER: 33,062
; REFERENCE/DOCKET NUMBER: MOBT:008
; TELEPHONE: (713) 787-1400
; TELEFAX: (713) 787-1440
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 590 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-08-756-317-12

Query Match 12.4%; Score 234.5; DB 2; Length 590;
Best Local Similarity 21.7%; Pred. No. 1e-16;
Matches 86; Conservative 64; Mismatches 172; Indels 75; Gaps 12;

Qy 10 PDKLTLEMLYSRKLGEQMQ-----NLLKADQI-----DTGVTPKDVHRE 50
Db 166 PEVIQQTVAEQENLVGRGMQVHDDVMNSGKYLIRWNSDSFSLGKDLAYTFGAVVFEN 225
Qy 51 DKLVLYRRRPAQVATQTIPLLIVVALNVRPMTDIOEDRSTIKGLLATGQDVYLLDMGY 110
Db 226 DIFQLQYEATTENVYQT-PILVVPFFINKYVYLDLRQNSLVNWLROQGHVFLMSWN 284
Qy 111 PQADRALTDDYINGYIDRCVDYLRETHGVQVNLGTCQGAFLSCLYALHSEK-----166
Db 285 PNAEQELTFADLITQGSVEALRVIEITGEKEANCIGYCIGTLLAAQTQYVVAKRLKN 344
Qy 167 -VKLVVMTVPDVFQTPGNL-----LSAWQNVVDVLDVMTGNIPCELLNWFSLK 218
Db 345 HVKSATYMATIIDFENPGSLGVFINEPVVSGLENL-----NOLGYFDGRQLAVTFSLR 399

Qy 219 PFSLTGQYVMVMDLLDDEDKVKQFLRMEK-----WIFDSPQAGETPROFIKDFYQ 270
Db 400 ENTLYWNYIID-----NYLKGKPESDFDILYWSNDGTNIPAKIHNFLLRNLYL 447
Qy 271 RNFGRIN-GGVLIGDQEVDLNRIRCPVLNIYPMODHLVPPDASKALAGLTSSSDYTELAPP 329
Db 448 NNELISPNAVKVGVLNLSRVKTPSFFIATQEDHIALWDTCTFRGADYLGGS-TLVLGE 506

Qy 330 GCHI-----GIYVSGKAQEGVTPTAIGRWLN 354
Db 507 SGHVAGIVPPSRNKYGCYTNAAKFENTK-----QWLD 539

RESULT 12
US-08-756-317-10
; Sequence 10, Application US/08756317
; Patent No. 5849894
; GENERAL INFORMATION:
; APPLICANT: Clemente, Thomas E.
; APPLICANT: Kishore, Ganesh M.
; APPLICANT: Mitsky, Timothy A.
; APPLICANT: Stark, David M.
; TITLE OF INVENTION: Improved Rhodospirillum Rubrum
; TITLE OF INVENTION: Poly-B-Hydroxyalkanoate Synthase
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/756.317
; FILING DATE: 25-NOV-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/007,693
; FILING DATE: 29-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Patterson, Melinda L.
; REGISTRATION NUMBER: 33,062
; REFERENCE/DOCKET NUMBER: MOBT:008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (713) 787-1400
; TELEFAX: (713) 787-1440
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 559 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-08-756-317-10

Query Match 11.8%; Score 222.5; DB 2; Length 559;
Best Local Similarity 25.3%; Pred. No. 1.9e-15;
Matches 79; Conservative 55; Mismatches 143; Indels 35; Gaps 11;

Qy 22 RKLGEGMNLLKADQIDTGVTPKD-----VVHREDKLVLYRRRPAQ 63
Db 153 KSLDLGLSLNLAQ-DLVNNGGMPQSQVNMDAFEVGNKLTSGEAVVYRNDVLELIQY-KPT 210
Qy 64 VATQTIPLIVVALNVRPMTDIOEDRSTIKGLLATGQDVYLLDMGYPDQADRALTDDY 123
Db 211 EQVHARPLLVPPQINKFVFDLSPEKSLARVCLRSQQOTFIISWRNPTKQAREGLSTY 270
Qy 124 INGYIDRCVDYLRETHGVQVNLGICOGG-----AFSLCYTALHSEKVNKLVTMTVPDF 179

Db 271 IDA-LKEADVLAITGSKDLNMLGACSGGTTCTALVGHYAALGENKYNALTLVSVLD- 328
Qy 180 QTPGNLLSAWQNVVDLAVD---TWGNIPGELLNWTFLSKPFSLTGQKYVMVDDLLDD 236
Db 329 TTMNDQVALFVDEQTELEAAKRHSYQAGVLEGSEMAKVFAMWRPNDLIWNWYNNY-LIGN 387
Qy 237 EDKVNFLRMKWI FDSPPQAGETFRQFIKDFYQNRGNGVGL-IGDQEVDLNRICPV 295
Db 388 EPPVFDIL---FWNNDT-TRLPAAFHGDLEIEMFKSNPLTRPDALVCGGTPIDLKQVKCDI 443
Qy 296 LNIYPMQDHLVP 307
Db 444 YSLAGTNDHITP 455

RESULT 13

US-09-105-537-2
; Sequence 2, Application US/09105537A
; Patent No. 6265202
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Xue, Y.
; APPLICANT: Zhao, L.
; TITLE OF INVENTION: DNA encoding methymycin and pikromycin
; FILE REFERENCE: 600.438US1
; CURRENT APPLICATION NUMBER: US/09/105,537A
; CURRENT FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 5215
; TYPE: PRT
; ORGANISM: Streptomyces venezuelae
US-09-105-537-2

Query Match 11.8%; Score 222.5; DB 4; Length 5215;
Best Local Similarity 25.3%; Pred. No. 8.3e-14;
Matches 79; Conservative 55; Mismatches 143; Indels 35; Gaps 11;

Qy 22 RKLGGMQLLKADQIDTGVTPKD-----VHREDKLVYRYPRAQ 63
Db 4809 KSLLDGLSLAK-DLVNNGMPSQVNDMAFEVGNLGTSEGA VYRNDVLELIQY-KPIT 4866
Qy 64 VATQIPLLVVYALNRPYMTDIOEDRSTIKGLATGQDVYLIDMGYPQADRALTLDDY 123
Db 4867 EQVHARPLLVPPQINKFVFDLSPEKSLARYCLRSQQQTFIISWRNPTKAOREWGLSTY 4926
Qy 124 INGYIDRCVDYLRETHGVQVNNLLGTICQGG---AFSLCYTALHSEKKNLVMTVTPVDF 179
Db 4927 IDA-LKEADVLAITGSKDLNMLGACSGGTTCTALVGHYAALGENKYNALTLVSVLD- 4984
Qy 180 QTPGNLLSAWQNVVDLAVD---TWGNIPGELLNWTFLSKPFSLTGQKYVMVDDLLDD 236
Db 4985 TTMNDQVALFVDEQTELEAAKRHSYQAGVLEGSEMAKVFAMWRPNDLIWNWYNNY-LIGN 5043
Qy 237 EDKVNFLRMKWI FDSPPQAGETFRQFIKDFYQNRGNGVGL-IGDQEVDLNRICPV 295
Db 5044 EPPVFDIL---FWNNDT-TRLPAAFHGDLEIEMFKSNPLTRPDALVCGGTPIDLKQVKCDI 5099
Qy 296 LNIYPMQDHLVP 307
Db 5100 YSLAGTNDHITP 5111

RESULT 14

US-09-052-339-1
; Sequence 1, Application US/09052339
; Patent No. 5968805
; GENERAL INFORMATION:
; APPLICANT: DOI Yoshiharu
; APPLICANT: FUKUI Toshiaki

APPLICANT: MATSUSAKI Hiromi
TITLE OF INVENTION: POLYESTER SYNTHASE AND A GENE CODING
TITLE OF INVENTION: FOR THE SAME
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESSES:
ADDRESSEE: DOI Yoshiharu
ADDRESSEE: FUKUI Toshiaki
STREET: c/o The Institute of Physical and Chemical Research, 2-1,
STREET: Hiroseawa
CITY: Wako-shi
STATE: Saitama
COUNTRY: Japan
ZIP: 351-0198
ADDRESSEE: MATSUSAKI Hiromi
STREET: Huji Koopo ?-203, 1-4-96, Niikura,
CITY: Wako-shi
STATE: Saitama
COUNTRY: Japan
ZIP: 351-0115
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/052.339
FILING DATE: 3/30/98
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 82965/1997
FILING DATE: 01-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Lisa A. Haile
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 07898/025001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619)678-5070
TELEFAX: (619)678-5099
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 559 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-052-339-1

Query Match 11.8%; Score 221.5; DB 2; Length 559;
Best Local Similarity 25.1%; Pred. No. 2.5e-15;
Matches 78; Conservative 55; Mismatches 145; Indels 33; Gaps 11;
Qy 22 RKLGGMQLLK-----ADQID-----TGVTPKDVHREDKLVYRYPRAQV 64
Db 153 KSLLDGLTHLAKDLVNNCGMPSQVNDMAFEVGNLGTSEGA VYRNDVLELIQY-RPITE 211
Qy 65 ATQIPLLVVYALNRPYMTDIOEDRSTIKGLATGQDVYLIDMGYPQADRALTLDDYI 124
Db 212 QVHERPLLVPPQINKFVFDLSPKSLARFCLSNQQTFFIVSWRNPTKAOREWGLSTYI 271
Qy 125 NGYIDRCVDYLRETHGVQVNNLLGTICQGG---AFSLCYTALHSEKKNLVMTVTPVDFQ 180
Db 272 DA-LKEADVVSVAITGSKDINMLGACSGGTTCTALLGHYAALGKKNALTLVSVLD-T 329
Qy 181 TPGNLLSAWQNVVDLAVD---TWGNIPGELLNWTFLSKPFSLTGQKYVMVDDLLDDE 237
Db 330 TLDQVALFVDEKTELEAAKRHSYQAGVLEGSEMAKVFAMWRPNDLIWNWYNNY-LIGNE 388
Qy 238 DKVNFLRMKWI FDSPPQAGETFRQFIKDFYQNRGNGVGL-IGDQEVDLNRICPV 296
Db 389 PVPFDIL---FWNNDT-TRLPAAFHGDLEIEMFKKNPLVRANALEVSGTPIDLKQVTADYI 444
Qy 297 NIYPMQDHLVP 307
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Db 445 SLAGTNDHITP 455

RESULT 15

US-09-385-742B-1
; Sequence 1, Application US/09385742B
; Patent No. 6391611
; GENERAL INFORMATION:
; APPLICANT: Doi, Yoshiharu
; APPLICANT: Fukui, Toshiaki
; APPLICANT: Matusaki, Hiromi
; TITLE OF INVENTION: POLYESTER SYNTHASE AND A GENE CODING FOR
; TITLE OF INVENTION: THE SAME
; FILE REFERENCE: 07898-047001
; CURRENT APPLICATION NUMBER: US/09/385,742B
; CURRENT FILING DATE: 1999-08-30
; PRIOR APPLICATION NUMBER: JP 82965/1997
; PRIOR FILING DATE: 1997-04-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Pseudomonas
US-09-385-742B-1

Query Match 11.8%; Score 221.5; DB 4; Length 559;
Best Local Similarity 25.1%; Pred. No. 2.5e-15;
Matches 78; Conservative 55; Mismatches 145; Indels 33; Gaps 11;

QY 22 RKLGEQMNLK-----ADQID-----TGVTPKDVVHREDKLVLYRPAQV 64
Db 153 KSLDGLTHLAKDLVNGMPSQVDNGAPEVKGSLGTTEGAVVFRNDVLELIQY-RPTTE 211
QY 65 ATQTIPLLIYVALNRPYMTDICEDRSTIKGLLATGQDVYLIDWGYPDOADRALTLDDVI 124
Db 212 QVHERPLLVVPQINKFYVFDLSFDKSLARFCLSNNOQTFFIVSWRNPTKAQREWGLSTYI 271
QY 125 NGYIDRCVDYLRETHGVQVQVNLGICOGG----AFSLCYTALHSEKYNLVTWVTPVDFQ 180
Db 272 DA-LKEADVVSAITGSKDINMLGACSGGITCTALLGHYAALGKVKNAITLLVSVLD-T 329
QY 181 TPGNLLSANVQVVDVLAVD---TMGNIPGELLNWTFLSLKPFSLTGQKYNVMDLLDDE 237
Db 330 TLDSQVLFVDEKTEBAKRHSYQAGVLEGRDMAKVFAMWRPNDLIWNVYVNNY-LLGNE 388
QY 238 DKVKNFLRMEKWFDSQDQAGETFRQFIKDFYQNGFINGGVL-IGDQEVDLNIRCPVL 296
Db 389 PPVFDIL---FMNNDI-TRLPAAFHGDLIEMFKKNPLVRANALEVSGTPIDLKQVTADY 444
QY 297 NIYPMODHLVP 307
Db 445 SLAGTNDHITP 455

Search completed: March 23, 2003, 05:54:20
Job time : 37.5442 secs

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GenCore version 5.1.4 p5_4578
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: March 23, 2003, 06:00:52 ; Search time 37.9682 Seconds
(without alignments)
502.684 Million cell updates/sec

Title: US-09-779-427-3
Perfect score: 1884
Sequence: 1 VSPFDIRPDKLTSEMLEY.....SGKAQGVTPAIRGLNLRG 357

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1884	100.0	357	10	US-09-779-427-3 Sequence 3, Appli
2	583.5	31.0	362	9	US-09-479-040-11 Sequence 11, Appl
3	272	14.4	576	9	US-09-364-847-37 Sequence 37, Appl
4	272	14.4	712	9	US-09-364-847-49 Sequence 49, Appl
5	272	14.4	712	9	US-09-364-847-51 Sequence 51, Appl
6	222.5	11.8	559	9	US-09-364-847-21 Sequence 21, Appl
7	222.5	11.8	856	9	US-09-364-847-33 Sequence 33, Appl
8	222.5	11.8	856	9	US-09-364-847-35 Sequence 35, Appl
9	222.5	11.8	5215	9	US-09-860-846-2 Sequence 2, Appli
10	222.5	11.8	5215	10	US-09-861-289-2 Sequence 2, Appli
11	202	10.7	559	10	US-09-820-721A-1 Sequence 1, Appli
12	198	10.5	559	10	US-09-820-953-1 Sequence 1, Appli
13	192	10.2	559	9	US-10-218-519-1 Sequence 1, Appli
14	192	10.2	559	10	US-09-821-016-1 Sequence 1, Appli
15	192	10.2	559	10	US-09-820-952A-1 Sequence 1, Appli
16	190	10.1	560	10	US-09-820-952A-3 Sequence 3, Appli
17	189.5	10.1	560	9	US-10-218-519-3 Sequence 3, Appli
18	189.5	10.1	560	10	US-09-821-016-3 Sequence 3, Appli
19	184	9.8	560	10	US-09-820-721A-3 Sequence 3, Appli

ALIGNMENTS

RESULT 1

US-09-779-427-3
; Sequence 3, Application US/09779427
; Patent No. US20010031489A1

GENERAL INFORMATION:

; APPLICANT: STEINBUCHER, Alexander

; APPLICANT: LIEBERGESELL, Matthias

; APPLICANT: VALENTIN, Henry

; APPLICANT: PRIES, Andreas

; TITLE OF INVENTION: Process for manufacturing polyhydroxylic fatty acids, and recomb

; TITLE OF INVENTION: bacterial strains for carrying out the process

; FILE REFERENCE: MOBT:152-2 - 11899.0152.DVUS01

; CURRENT APPLICATION NUMBER: US/09/779.427

; CURRENT FILING DATE: 2001-02-08

; PRIOR APPLICATION NUMBER: US 09/420,119

; PRIOR FILING DATE: 1999-10-18

; PRIOR APPLICATION NUMBER: US 08/809,286

; PRIOR FILING DATE: 1997-07-03

; PRIOR APPLICATION NUMBER: WO 96/08566

; PRIOR FILING DATE: 1995-09-15

; NUMBER OF SEQ ID NOS: 3

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 3

; LENGTH: 357

; TYPE: PRT

; ORGANISM: Thiocapsa pfennigii

US-09-779-427-3

Query Match 100.0%; Score 1884; DB 10; Length 357;

Best Local Similarity 100.0%; Pred. No. 1.4e-170;

Matches 357; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VSPFDIRPDKLTSEMLEYSRKLGEGMQLLKADIDTGVTPKDVVHREDKLVLYRVR 60

Db 1 VSPFDIRPDKLTSEMLEYSRKLGEGMQLLKADIDTGVTPKDVVHREDKLVLYRVR 60

Qy 61 PAQVATQIPLIVLVNRPYMTDIOEDRSTIKGLLATGQDVYLLIDMGYPQADRALTL 120

Db 61 PAQVATQIPLIVLVNRPYMTDIOEDRSTIKGLLATGQDVYLLIDMGYPQADRALTL 120

Qy 121 DDYINGYIDRCVDYLRETHGVQVNLGICQCGAFSLCYTALHSEKVNLTWMTVPDQF 180

Db 121 DDYINGYIDRCVDYLRETHGVQVNLGICQCGAFSLCYTALHSEKVNLTWMTVPDQF 180

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Db 121 DDYINGYIDRCVDYLRETHGVQVNLGTCQGFSLCYTALHSEKVKULVTMTVPDQF 180
Qy 181 TPGNLLSAWQVNDVLDVDTMGNIPGELLNWTFLSLKPFSLTGQKYNMVDLLDDEK 240
Db 181 TPGNLLSAWQVNDVLDVDTMGNIPGELLNWTFLSLKPFSLTGQKYNMVDLLDDEK 240
Qy 241 KNFLRMEKWFIDSPQAGTFRQFIKDFYQNGFINGGVLDQGVLDLNRPCVNIYP 300
Db 241 KNFLRMEKWFIDSPQAGTFRQFIKDFYQNGFINGGVLDQGVLDLNRPCVNIYP 300
Qy 301 MODHLVPPDASKALAGLTSSDYTELAFPGGHIGYVSGKAQEGVTPAIGRWLNERG 357
Db 301 MODHLVPPDASKALAGLTSSDYTELAFPGGHIGYVSGKAQEGVTPAIGRWLNERG 357

RESULT 2
US-09-479-040-11
; Sequence 11, Application US/09479040
; Publication No. US20020182690A1
; GENERAL INFORMATION:
; APPLICANT: McCool, Gabriel J.
; APPLICANT: Cannon, Maura C.
; APPLICANT: Cannon, Francis C.
; APPLICANT: Valentin, Henry E.
; APPLICANT: Gruys, Kenneth J.
; TITLE OF INVENTION: POLYHYDROXYALKANOATE BIOSYNTHESIS ASSOCIATED PROTEINS
; FILE REFERENCE: MOBT212
; CURRENT APPLICATION NUMBER: US/09/479,040
; CURRENT FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 11
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Bacillus megaterium
US-09-479-040-11

Query Match 31.0%; Score 583.5; DB 9; Length 362;
Best Local Similarity 36.3%; Pred. No. 2.7e-47;
Matches 128; Conservative 74; Mismatches 142; Indels 9; Gaps 6;

Qy 11 DKLTEEM-LEY---SRKLGEGHQLLKADQIDTGVTPKDVVHREDKLVYRYPQAQVAT 66
Db 10 EKLKSMPESEYKSSARRFRAYEIMTTEAPEVEGLTPKEVIWKKQKAKLYRY-TPVKDNL 68
Qy 67 QTIPLLIVVALNRPVMTDIOEDRSTIKGLLATGQDVYLDWGYPDQADRLTLDDYING 126
Db 69 HKTPIILLVVALINKPYLDLTPGNSLVYLLNRGDFVYLLDWTGTEGLEDNSNMKLDYIVD 128
Qy 127 YIDRCVDYLRETHGVQVNLGTCQGFSLCYTALHSE-KVKNLVTMTVPDFTPGNL 185
Db 129 YIPKAKKVLRTSKSPDLVSLGVCWGTTWTSIFAALNEDLPKKNLIFMTSPFDFDTG-L 187
Qy 186 LSAWQV--VDVDLAVDTMGNIPGELLNWTFLSLKPFSLTGQKYNMVDLLDDEKVKNF 243
Db 188 YGAFLDDRYFNLDAVDTGNIPPEMIDFGNKMLKPITTFYGPYVTLVDRSENQRFVESW 247
Qy 244 LMEKWFIDSPQAGTFRQFIKDFYQNGFINGGVLDQGVLDLNRPCVNIYPQD 303
Db 248 KLMQKVAADGIFPAGAYRQWRDFYQQNKLINGELVEGRKVDLKNITKANILTAASRD 307
Qy 304 HLVPDASKALAGLTSSDYTELAFPGGHIGYVSGKAQEGVTPAIGRWLNER 356
Db 308 HIAHPHQAALMDAVSSDEKYEKLLQTHGVSVVFGPKAVKETYPSIGDWLEKR 360

RESULT 3
US-09-364-847-37
; Sequence 37, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
```

```
; APPLICANT: Madison, Lara L
; APPLICANT: Huisman, Gjalit W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; CURRENT FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/094,674
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 37
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Zoogloea ramigera
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(576)
; OTHER INFORMATION: synthase
US-09-364-847-37

Query Match 14.4%; Score 272; DB 9; Length 576;
Best Local Similarity 24.9%; Pred. No. 1.8e-17;
Matches 96; Conservative 65; Mismatches 168; Indels 56; Gaps 14;

Qy 6 IDIRPDKLTE---EMLEYSRKLG---GMQNLKADQIDTG----VTPKDVVHREDKLV 55
Db 155 IETKGESLTRGLVNMGLDINNMGDINNNGHISLSDSAFEGVGRNLAITPGTVIYENPLFQL 214
Qy 56 YRYPRAQVATQTIPLIVVALNRPVMTDIOEDRSTIKGLLATGQDVYLDWGYPDQAD 115
Db 215 IQYTTPTTTSQR-PLLMVPPCINKFYILDQPNLSLVRYAVEQNTVFLISWSNPKSL 273
Qy 116 RALTLDDYINGYIDRCVDYLRETHGVQVNLGTCQGF--AFSLCYTALHSE-KVKNLV 171
Db 274 AGTMDYVEQGVIEAIRIVQDVSSQDKLNMFGVCVGTIVATALAVLAARQHPAASLT 333
Qy 172 TMTVPDFTPGNLLSAWQVNDVLDVDTMGNIPGELLNWTFLSLKPFSLTGQKYNV 228
Db 334 LLTFLDFSDTG--CSTSCRETQVALREQQLRDGLAPGRDLASTFSSLRPNDLV-WNYV 390
Qy 229 NMVDLLDDEKVKFLRMEKWFIDSPQAGTFRQFIKDFYQNGF-INGGVLDQGV 287
Db 391 QSNYLGKNEPAAFDUL---FWNSDSTNLPDGMFCWYLRNTYVLENSLKVPGLTVAGEKID 447
Qy 288 LRNIRCPVLNTPMQDHLVP-----PDASKALAGLTSSDYTELAFPGGH 332
Db 448 LGLIDAPAFIVGSRDHIVPMWSAYGSLDILNQKPGKANRFVLGAS-----GH 495
Qy 333 IGIYVSGKAQEGVTPAIGRWLNERG 357
Db 496 IAGVINSVAKNKR-----YVINDGG 516

RESULT 4
US-09-364-847-49
; Sequence 49, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huisman, Gjalit W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; CURRENT FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/094,674
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 49
; LENGTH: 712
; TYPE: PRT
; ORGANISM: Artificial Sequence
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; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthase (R)
; OTHER INFORMATION: specific enoyl-CoA transferase Fusion Protein
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(712)
US-09-364-847-49

Query Match      14.4%; Score 272; DB 9; Length 712;
Best Local Similarity 24.9%; Pred. No. 2.4e-17;
Matches 96; Conservative 65; Mismatches 168; Indels 56; Gaps 14;

Qy 6 IDIRPKLTE---EMLEYSRKLG---GMQNLKADQIDTG---VTPKDVVHREDKLV 55
Db 155 IETKESLTRGLVNMGLDINNGHISUSDSASAFEVGRNLAITPGTVIYENPLFOL 214
Qy 56 VYRRPAQVATQITPLLIYALVNRPMYMTDIOEDRSTIKGLLATGQDVYLDWGYPDQAD 115
Db 215 IQYTPPTVSQR-PLLMVPPCINKFYILDLPENSLVRYAVEQNTVFLISMSNPKSL 273
Qy 116 RALTDDYINGVYDRCVYLRETHGVQVQNLGICOGG---AFSLCYTALHSE-KVKNLV 171
Db 274 AGTTWDDYVEQVIEAIRIVQDVSGQDKLNMFGFCVGGTIVATALAVLAARGQHPPAASLT 333
Qy 172 TMVTPVDFQTPGNLLSAAWQNVVDVLDVDTM---GNIPGELLNWTFLSLKPSLTQCKV 228
Db 334 LTTFLDFSDTG--CSTCRETQVALRQOQLRDGGMLPGRDLASTFSSLRPNDLV-WNVV 390
Qy 229 NMVDLDDDEDKVKFLRMEKWFIDSPDOAGETFRFIDFYQNRGF-INGGVLIQDQEV 287
Db 391 QSNYLKGNPEAFAFDLL---FWNSDSTNLPMPFCWYLRNTYLENSLKVPGLTVAGEKID 447
Qy 288 LRNIRCPVLNIYPMODHLVP-----PDASKALAGLTSSEDTYELAPPGH 332
Db 448 LGLIDAPAFIYGRSDHIVPMWSAYGSLDILNQKPGANRFVLGAS-----GH 495
Qy 333 IGIYVSGKAQEGVTPAIGRWLNERG 357
Db 496 IAGVINSVAKNKRT----YWINDGG 516

RESULT 5
US-09-364-847-51
; Sequence 51, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huisman, Gjal W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; EARLIER FILING DATE: 1999-07-30
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 51
; LENGTH: 712
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: (R) - specific
; OTHER INFORMATION: enoyl-CoA transferase Synthase Fusion Protein
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(712)
US-09-364-847-51

Query Match      14.4%; Score 272; DB 9; Length 712;
Best Local Similarity 24.9%; Pred. No. 2.4e-17;
Matches 96; Conservative 65; Mismatches 168; Indels 56; Gaps 14;
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Qy 6 IDIRPKLTE---EMLEYSRKLG---GMQNLKADQIDTG---VTPKDVVHREDKLV 55
Db 291 IETKESLTRGLVNMGLDINNGHISUSDSASAFEVGRNLAITPGTVIYENPLFOL 350
Qy 56 VYRRPAQVATQITPLLIYALVNRPMYMTDIOEDRSTIKGLLATGQDVYLDWGYPDQAD 115
Db 351 IQYTPPTVSQR-PLLMVPPCINKFYILDLPENSLVRYAVEQNTVFLISMSNPKSL 409
Qy 116 RALTDDYINGVYDRCVYLRETHGVQVQNLGICOGG---AFSLCYTALHSE-KVKNLV 171
Db 410 AGTTWDDYVEQVIEAIRIVQDVSGQDKLNMFGFCVGGTIVATALAVLAARGQHPPAASLT 469
Qy 172 TMVTPVDFQTPGNLLSAAWQNVVDVLDVDTM---GNIPGELLNWTFLSLKPSLTQCKV 228
Db 470 LTTFLDFSDTG--CSTCRETQVALRQOQLRDGGMLPGRDLASTFSSLRPNDLV-WNVV 526
Qy 229 NMVDLDDDEDKVKFLRMEKWFIDSPDOAGETFRFIDFYQNRGF-INGGVLIQDQEV 287
Db 527 QSNYLKGNPEAFAFDLL---FWNSDSTNLPMPFCWYLRNTYLENSLKVPGLTVAGEKID 583
Qy 288 LRNIRCPVLNIYPMODHLVP-----PDASKALAGLTSSEDTYELAPPGH 332
Db 584 LGLIDAPAFIYGRSDHIVPMWSAYGSLDILNQKPGANRFVLGAS-----GH 631
Qy 333 IGIYVSGKAQEGVTPAIGRWLNERG 357
Db 632 IAGVINSVAKNKRT----YWINDGG 652

RESULT 6
US-09-364-847-21
; Sequence 21, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huisman, Gjal W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; EARLIER FILING DATE: 1999-07-30
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 21
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Pseudomonas oleovorans
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(559)
; OTHER INFORMATION: PHA Polymerase
US-09-364-847-21

Query Match      11.8%; Score 222.5; DB 9; Length 559;
Best Local Similarity 25.3%; Pred. No. 8.3e-13;
Matches 79; Conservative 55; Mismatches 143; Indels 35; Gaps 11;

Qy 22 RKLGEQMNLKADQIDTGVTPKD-----VHREDKLVLYRRRPAQ 63
Db 153 KSLDGLGNLAK-DLVNNGGMPFSQVNMDAFEVGNLGTSEGAVVYRNDVLELIQY-KPIT 210
Qy 64 VATQITPLLIYALVNRPMYMTDIOEDRSTIKGLLATGQDVYLDWGYPDQADRALTDY 123
Db 211 EQVHARPLLVPPQINKFYVFDLSPEKSLARYCLRSQQOTFIISWRNPTKAOREWGLSTY 270
Qy 124 INGYIDRCVDYLRETHGVQVQNLGICOGG-----AFSLCYTALHSEKVNLMVTMTVPDF 179
Db 271 IDA-LKEAVDAVLAITGSKDLNMLGACSGGITCTALVGHYAALGENKVNALTLVSVLD- 328
Qy 180 QTPGNLLSAAWQNVVDVLDVDTM---TMGNIPGELLNWTFLSLKPSLTQCKVNMVDLDD 236
```


US-09-860-846-2

Query Match 11.8%; Score 222.5; DB 9; Length 5215;
Best Local Similarity 25.3%; Pred. No. 2.1e-11;
Matches 79; Conservative 55; Mismatches 143; Indels 35; Gaps 11;

QY 22 RKLGEQMLLKKADQIDTGVTPKD-----VVHREDKLVLYRRPQA 63
DB 4809 KSLLDGLSLAK-DLVNNGGMSQVNMDFEVGNLGTSEGA VYVRNDVLELIQY-KPIT 4866

QY 64 VATQTIPLIVLVNRPYMTIOEDRSTIKGLLATGQDVYLIDMGYPQADRALTLDDY 123
DB 4867 EQVHARPLLVPPQINKFVFDLSPEKSLARYCLRSQQQTFIISWRNPYKAQREGLSTY 4926

QY 124 INGYDRCDVYURETHGVQVNLGICQGG----AFSLCYTALHSEKVKVNLVTMTPVDF 179
DB 4927 IDA-LKEAVDAVLAITGSKDLNMLGACSGGITCTALVGHYAALGENKVNALLVSVLD- 4984

QY 180 QTPGNLLSAWQNVQDVLAVD---TMGNIPGELLNWTFLSKPFSITGQKYVNMVDLLDD 236
DB 4985 TTMDNQVALFVDEQTLAEAKRHSYQAGVLEGSEMAKVFAWMPNDLIWYVWNNY-LLGN 5043

QY 237 EDKVNFLMEKWI FDS PDQAGETFRQFIKDFYQRNGFINGGV-IGDOEVDLRNIRCPV 295
DB 5044 EPPVFDIL---FWNDT-TRLPAAFHGDLEIEMFKNPLTRPDALEVC GTPIDLKQVKCDI 5099

QY 296 LNIYPMQDHLVP 307
DB 5100 YSLAGTNDHITP 5111

RESULT 10

US-09-861-289-2

; Sequence 2, Application US/09861289
; Patent No. US20020110897A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Xue, Y.
; APPLICANT: Zhao, L.
; TITLE OF INVENTION: DNA encoding methymycin and piktomycin
; FILE REFERENCE: 600,438US1
; CURRENT APPLICATION NUMBER: US/09/861,289
; PRIOR FILING DATE: 2001-05-18
; PRIOR FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 5215
; TYPE: PRT
; ORGANISM: Streptomyces venezuelae
US-09-861-289-2

Query Match 11.8%; Score 222.5; DB 10; Length 5215;
Best Local Similarity 25.3%; Pred. No. 2.1e-11;
Matches 79; Conservative 55; Mismatches 143; Indels 35; Gaps 11;

QY 22 RKLGEQMLLKKADQIDTGVTPKD-----VVHREDKLVLYRRPQA 63
DB 4809 KSLLDGLSLAK-DLVNNGGMSQVNMDFEVGNLGTSEGA VYVRNDVLELIQY-KPIT 4866

QY 64 VATQTIPLIVLVNRPYMTIOEDRSTIKGLLATGQDVYLIDMGYPQADRALTLDDY 123
DB 4867 EQVHARPLLVPPQINKFVFDLSPEKSLARYCLRSQQQTFIISWRNPYKAQREGLSTY 4926

QY 124 INGYDRCDVYURETHGVQVNLGICQGG----AFSLCYTALHSEKVKVNLVTMTPVDF 179
DB 4927 IDA-LKEAVDAVLAITGSKDLNMLGACSGGITCTALVGHYAALGENKVNALLVSVLD- 4984

QY 180 QTPGNLLSAWQNVQDVLAVD---TMGNIPGELLNWTFLSKPFSITGQKYVNMVDLLDD 236
DB 4985 TTMDNQVALFVDEQTLAEAKRHSYQAGVLEGSEMAKVFAWMPNDLIWYVWNNY-LLGN 5043

QY 237 EDKVNFLMEKWI FDS PDQAGETFRQFIKDFYQRNGFINGGV-IGDOEVDLRNIRCPV 295
DB 5044 EPPVFDIL---FWNDT-TRLPAAFHGDLEIEMFKNPLTRPDALEVC GTPIDLKQVKCDI 5099

QY 296 LNIYPMQDHLVP 307
DB 5100 YSLAGTNDHITP 5111

RESULT 11
US-09-820-721A-1
; Sequence 1, Application US/09820721A
; Patent No. US20020098565A1
; GENERAL INFORMATION:
; APPLICANT: Canon INC.
; TITLE OF INVENTION: Polyhydroxyalkanoate synthase and gene encoding the same
; FILE REFERENCE: 4051022
; CURRENT APPLICATION NUMBER: US/09/820,721A
; CURRENT FILING DATE: 2001-03-30
; NUMBER OF SEQ ID NOS: 10
; SEQ ID NO 1
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Pseudomonas putida P91
; FEATURE:
; OTHER INFORMATION: Polyhydroxyalkanoate synthase
US-09-820-721A-1

Query Match 10.7%; Score 202; DB 10; Length 559;

Best Local Similarity 24.5%; Pred. No. 7.3e-11;
Matches 74; Conservative 48; Mismatches 142; Indels 38; Gaps 9;

QY 27 GMONLLKADQIDTG---VTPKDVVHREDKLVLYRRRPAQVATOTIPLLIYVALVNRYP 82
DB 171 GMPSQVNMDAFEVGNLATTGCAVVRNDVLELIQY-REITEQVHEKPLLVPPQINKSY 229

QY 83 MTDIOEDRSTIKGLLATGQDVYLIDMGYPQADRALTLDDYINGYIDRCVYLRTHGV 142
DB 230 VFDLSPEKSLARFCLRSTVQTFIVSWRPNKRSQEWGLSTYIDA-LKEAVDVVLAITGSK 288

QY 143 QYNLLGICQGG---AFSLCYTALHSEKVKVNLVTMTPVDFOTPGNLLSAWQNVVDILA 198
DB 289 DUNMLGACSGGITCTALVGHYAALGEEKVNALLVSVLD-----TTLDTQVALP 338

QY 199 VDTM-----GNIPGELLNWTFLSKPFSITGQKYVNMVDLLDDEKVKNFRLM 246
DB 339 VDEQTLSEAKRHSYQAGVLEGDRMAKVFAWMPNDLIWYVWNNY-LLGNEPVPFDILEW 397

QY 247 EKWIFDSPDQAGETFRQFIKDFYQRNGFINGGV-IGDOEVDLRNIRCPVLNIYPMQDHL 305
DB 398 NNDITRLP-----AAFHGDLEIEMFKNPLVRPGALEVCGTPI DLSQVTTDIFSVA GTNDHI 453

QY 306 VP 307

DB 454 TP 455

RESULT 12

US-09-820-953-1

; Sequence 1, Application US/09820953
; Patent No. US20010055795A1
; GENERAL INFORMATION:
; APPLICANT: CANON INC.
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
; FILE REFERENCE: 4051019
; CURRENT APPLICATION NUMBER: US/09/820,953
; CURRENT FILING DATE: 2001-03-30
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Microsoft Word
; SEQ ID NO 1
; LENGTH: 559
; TYPE: PRT

Qy 100 QDVLIDMGYPQADRALTLDDYINGYIDRCVDYLRETHGVQDQVNLGICOGG-----AF 155
Db 247 NVQTFIVSWRNPTKEOREWGLSTYIEA-LKEAVDVVTAITGSKOVNMLGACSGGITCTAL 305
Qy 156 SLCYTALHSEKVKNLVTMVPVDFQTPGNLLSAWVONVDVDLAVDTM-----G 203
Db 306 LGHYAAIGENKVNALTLLVSLD-----TTLDSVLFVDEQTLAAKRSYQAG 355
Qy 204 NIPGELLNWTFLSLKPFSLTGOKYVNMVDLLDDEKVKNFRLRMEKWFDSPOAGETFRQ 263
Db 356 VLEGRDMAKVFAMWRENDLIWYVNNY-LLGNEPVPFDIL---FWNNDT-TRLPAAFHG 410
Qy 264 FIKDFYORNGFINGVL-IGDOEVDLRNRCVLIYPMQDHLVP 307
Db 411 DLIEMFSNPLTRADALEVCGTFIDLUKVTADIFSLAGTSDHITP 455

Search completed: March 23, 2003, 06:15:16
Job time : 45.9682 secs

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